

# U.S. Army Corps of Engineers

New England District Concord, Massachusetts

# Determination of Final Remediation Limits Elm Street Bridge to Dawes Avenue Bridge 1.5 Mile Reach Removal Action

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Environmental Remediation Contract General Electric (GE)/Housatonic River Project Pittsfield, Massachusetts

Contract No. DACW33-00-D-0006
Task Order No. 0005

02M-0140



## **United States Environmental Protection Agency**

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October 30, 2003

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RE:

Remediation Limits - Elm Street Bridge to Dawes Avenue Bridge

1.5 Mile Reach Removal Action

GE-Pittsfield/Housatonic River Site, Pittsfield, Massachusetts

Enclosed please find the following report:

Determination of Final Remediation Limits, Elm Street Bridge to Dawes Avenue Bridge, 1.5 Mile Reach Removal Action (October 2003), by Weston Solutions

This report summarizes the additional PCB and non-PCB data collected in the 2002 supplemental sampling event and describes the evaluation process used to determine final remediation limits from the Elm Street Bridge to Dawes Avenue Bridge. The final remediation limits differ significantly from those presented in the Engineering Evaluation/Cost Analysis (EE/CA) and the summarized in the November 21, 2000 Action Memorandum for the 1.5 Mile Reach. These limits will be used in the design and implementation of the 1.5 Mile Reach Removal Action.

If you have any questions, please contact me at (413) 236-0969.

Sincerely,

Dean Tagliaferro

Dean Tagliaferro

Enclosure

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#### 1. Introduction

This report has been prepared to present analytical results for soil samples collected along the riverbanks from the Elm Street Bridge downstream to the Dawes Avenue Bridge as a part of the investigation stage of the 2<sup>nd</sup> Phase of the 1.5 Mile Reach Removal Action of the Housatonic River in Pittsfield, Massachusetts. Field sampling activities associated with this investigation were conducted on March 25, 2002 through April 8, 2002. Included in this report is an analysis and evaluation of the new bank sample data in combination with existing/historical data. The results of the data analysis and evaluation are used to confirm, and in some cases modify remediation limits that were originally provided in the Engineering Evaluation/Cost Estimate (EE/CA) (07-0032) for the 1.5 Mile Reach Removal Action and finalized in EPA's November 21, 2000 Action Memorandum. This report includes the following sections:

- Purpose and Objectives
- Sampling Locations
- Field Sampling and Analytical Procedures
- Analytical Results
- Data Evaluation

The activities described in this memorandum were conducted in accordance with project-wide and area specific planning documents. These planning documents include the following:

- Work Plan Addendum (Sampling Plan), October 25, 2001
- Project Field Sampling Plan (00-0334)
- Project Health and Safety Plan (HASP) (00-0313)
- Project Quality Assurance Project Plan and Addendum (QAPP) (00-0305)
- Site Specific Health and Safety Plan (00-0475)

# 2. Purpose and Objectives

The purpose of the sampling investigation was to supplement existing riverbank soil data for the Elm Street Bridge to Dawes Avenue Bridge portion of the 1.5 Mile Reach in order to finalize the limit of remediation. The investigation had the following objectives:

- 1. Further assess PCB concentrations in riverbank soils at elevations above those previously sampled in order to determine whether the limit of remediation on the east and west bank between transects 108 150 could be lowered from its current location at the top of bank.
- 2. Further assess PCB concentrations at depths greater than three feet on residential parcels on the east riverbank downstream of the Elm Street Bridge. The cleanup level for depths greater than three feet on residential properties specified in the

EE/CA and Action Memorandum include a "not-to-exceed" PCB concentration of 50 ppm and an average concentration of PCBs of less than 10 ppm in bank soils from 3 to 15 feet deep.

3. Further assess Appendix IX Semivolatile Organic Compounds (SVOCs) at elevations above those previously sampled on the west riverbank between transects 114 – 130 and on the east riverbank at transect 110. Determine if remediation beyond that required to address PCBs is required in these areas.

# 3. Sampling Locations

A total of seventy-three sample locations were established to further characterize the PCB and Appendix IX SVOCs concentrations in the riverbanks from the Elm Street Bridge downstream to Dawes Avenue Bridge. However, in three sample locations complete refusal was met therefore giving a total of seventy locations sampled.

Sixty of the seventy-three sample locations were selected to correspond to existing transects 110 - 148 where previous sampling did not extend to the top of riverbank (EPA limit of remediation). These sample locations were spaced evenly between previous "upper bank" sample locations and the top of riverbank. The remaining thirteen sample locations were located on residential parcels on the east riverbank immediately downstream of the Elm Street Bridge. However, at three of these locations complete refusal was met and no samples were collected therefore giving a total of ten sample locations on the residential properties. All sample locations were surveyed for horizontal and vertical coordinates.

# 4. Field Sampling and Analytical Procedures

Soil sampling was conducted at the each of the locations as depicted on Figure 1 (maps 1 and 2). Sixty sample locations were sampled along existing transects 110 – 148 on both the east and west riverbank and sampled to a depth of three feet (with sample depths including 0-1, 1-2, and 2-3 feet). A total of ten locations were sampled on residential parcels on the east riverbank right downstream of the Elm Street Bridge. Three of the ten locations were selected to assess PCB concentrations at depths between 3 and 6 feet (with sample depths of 3-4, 4-5, and 5-6 feet). The remaining seven sample locations were on parcel I8-10-2 to further characterize the riverbank soil from 0-6 feet (with sample depths including 0-1, 1-2, 2-3, 3-4, 4-5, and 5-6 feet). This sampling was necessary since access for sampling could not be obtained on this residential property during the EE/CA sampling.

Sampling protocols were conducted in accordance with the WESTON Work Plan Addendum (October 25, 2001) and the WESTON Field Sampling Plan (30 July 2001) for soil sampling (C.32). All samples were analyzed for PCBs at a fixed, off site laboratory approved by the United States Army Corps of Engineers New England District. OA/OC

samples were obtained in accordance with the requirements outlined in the project QAPP and Addendum (00-03-05). WESTON conducted data management and data validation of sample analyses in accordance with the procedures outlined in the project QAPP. All analyses were found to meet the Level III data quality objectives as outlined in the project QAPP.

# 5. Analytical Results

A total of 204 samples were analyzed for Aroclors and Total PCBs and used in the data evaluation from the Spring 2002 sampling event. Twenty samples were analyzed for Appendix IX SVOCs parameters. In addition 362 Total PCB results and 12 Appendix IX SVOC results from existing sampling locations were used in the data evaluation. Tables showing the validated analytical results for all samples associated with this investigation and data evaluation have been attached to this report. (See Table 1 for all PCB results and Table 2 for the Appendix IX SVOC results.)

#### 6. Data Evaluation

The November 21, 2000 Action Memorandum for the 1.5 Mile Reach states that riverbank soils adjacent to recreational or commercial properties are classified as recreational use exposure scenarios. The recreational use cleanup criteria is 10 parts per million (ppm) in the top three feet. The Action Memorandum further states that compliance with the 10 ppm cleanup criteria will be based on the 95% Upper Concentration Limit of the mean PCB concentration in riverbank soil. For properties classified as recreational, there is no remediation required for riverbank soil at depths greater than three feet.

For residential properties, the November 21, 2000 Action Memorandum specifies a cleanup level of 2 ppm in the top three feet, based on the 95% Upper Concentration Limit of the mean PCB concentration in riverbank soil. For residential properties, there are additional cleanup criteria. For depths from three to fifteen feet (and above the groundwater table) there is a not-to-exceed concentration of 50 ppm PCBs. Furthermore, the arithmetic average of the PCBs in soil from three to fifteen feet (and above the groundwater table) must be less than 10 ppm.

For the Elm Street to Dawes Avenue section of the 1.5 Mile Reach, the EE/CA classified four properties as residential and the remaining riverbank properties were classified as recreational. These four residential properties are located immediately downstream of the Elm Street Bridge on the east side of the river. Two out of the four are commercial properties that contain residential apartments above stores and the remaining two are typical residential properties. After the EE/CA and the 2002 supplemental sampling was completed, EPA reached an agreement with the homeowners of the two residential properties to permanently relocate. The houses will be demolished and the properties turned over to the City of Pittsfield. Therefore, the riverbank on these two properties

were reclassified as recreational areas. In addition, due to the extremely steep banks (one of which consists entirely of a timber retaining wall) on the two commercial properties with apartments, EPA determined that access to these banks is very limited and that a recreational exposure scenario is more appropriate. Therefore, all riverbank soil from Elm Street to Dawes Avenue is now considered "recreational" for the purpose of determining cleanup levels.

The first step in evaluating the data and finalizing remediation limits is to evaluate the PCB data and determine the remediation required to meet the PCB cleanup levels. After the remediation limits to address PCBs are determined, the next step is to evaluate the Appendix IX (non-PCB hazardous substances) contamination to determine if additional remediation is required. The Action Memorandum states that the evaluation of Appendix IX data will be performed in a similar approach to the one specified in the overall Consent Decree between General Electric, EPA and other governmental agencies.

### Surficial PCB Evaluation: 0 – 3 Feet

To complete a final evaluation of the PCB concentrations in the banks from transect 108 to transect 150, previously obtained sample results were used in conjunction with the results from the investigation described above. This data is shown on Figure 1 (maps 1) and 2). The riverbanks in this stretch of river were evaluated as eleven distinct averaging areas/zones based on geographic distribution of the sample locations, observed characteristics of the soil types and trends in the PCB data. The data within each zone was then broken down further into groups that represented the locations by their elevation on the riverbank within each zone. Some zones were broken down into as many as three groups (low bank, mid bank and high bank) based on apparent trends in the PCB data. All of the newly established zones (with the exception of Zone 3a and Zone 4) were located above areas that had been previously evaluated and have remediation depths already determined by the EE/CA. The entire riverbanks in Zone 3a and Zone 4 were reevaluated due to availability of additional data that was not accessible when the EE/CA calculations were performed. Figure 1 (maps 1 and 2) display all zones that were reevaluated as part of this evaluation. Also, the lower bank areas that had remediation limits determined by the EE/CA are displayed and labeled as "Existing".

All twenty-one groups of riverbank soil data were evaluated by calculating the 95% or 99% Upper Confidence Level (UCL) of the arithmetic mean and comparing the bank soil cleanup goal of 10 ppm PCB to each UCL calculated. UCL values were calculated using the EPA approved *Pro UCL* software (version 2.1, December, 2002). For all the data sets, the 0-3 foot depth was evaluated first. If the UCL results were lower than the 10 ppm cleanup level, then no remediation was required within the area the data set represented. If the 0-3 foot depth UCL results exceeded the 10 ppm cleanup level, then additional calculations were performed on the 0-1 and 1-3 foot depths. If the 0-1 foot UCL result exceeded the 10 ppm cleanup level and the 1-3 foot result was lower than the cleanup level than only 0-1 foot remediation was required. If the 0-1 foot UCL result was below the 10 ppm cleanup level and the 1-3 foot result exceeded the cleanup level, then 0-3 foot remediation was required since the 0-1 foot layer of soil can not be left in

place while remediating the 1-3 foot depth interval. If both the 0-1 and the 1-3 foot UCL result exceeded the 10 ppm cleanup level, then the 0-3 foot remediation was required.

In some cases the 0-1 and the 1-3 foot depth data sets did not have enough data to obtain a UCL result, in those cases the maximum PCB result within the data set was used as a UCL number.

The Pro UCL Software printouts containing the results of the UCL calculations are attached to this report in Attachment A. The following section describes the data sets, including the UCL calculation results, utilized for the evaluation of each averaging area. Table 3 is an overall summary of the UCL results and remediation requirements for each zone. Figure 2 displays the final limit of remediation as determined by the EE/CA and the further modified by data evaluation summarized in this report. For bank areas labeled "Existing", remediation depths were determined in the EE/CA report. For bank areas labeled with a zone designation, remediation depths were determined by the evaluation summarized in this report.

Each of the Zones and data groups is described in detail below:

#### West riverbank:

#### Zone 1.

Located on the west riverbank beginning on transect 108 and ending at half distance between transects 114 and 116. Data within the Zone was evaluated as three groups, low bank, mid bank and high bank.

Zone 1 low: This group consists of 3 sample locations including 11 total samples from depths of 0 to 3 feet. The data set had an average PCB concentration of 3.40 ppm and a maximum PCB concentration of 22 ppm. The data was determined to have a lognormal distribution and the 95% UCL was calculated to be 8.24 ppm. Therefore, the 95% UCL fell below the cleanup level of 10 ppm and no remediation is required.

Zone 1 mid: This group consists of 2 sample locations including 6 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 0.088 ppm and a maximum PCB concentration of 0.22 ppm. The data was determined to have a normal distribution and the 95% UCL was calculated to be 0.15 ppm. Therefore, the 95% UCL fell below the cleanup level of 10 ppm and no remediation is required.

Zone 1 high: This group consists of 15 sample locations including 67 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 0.68 ppm and a maximum PCB concentration of 11.0 ppm. The data was determined to have a non-parametric distribution and the 95% UCL was calculated to be between 1.00 and 2.48 ppm. Therefore, the 95% UCL fell below the cleanup level of 10 ppm and no remediation is required.

#### Zone 2a.

Located on the west riverbank beginning half way between transects 114 and 116 and ending at half distance between transects 120 and 122. Data within the Zone was evaluated as three groups, low bank, mid bank and high bank.

Zone 2a low: This group consists of 3 sample locations including 10 total samples from depths of 0 to 3 feet. The data set had an average PCB concentration of 0.13 ppm and a maximum PCB concentration of 0.78 ppm. The data was determined to have a lognormal distribution and the 95% UCL was calculated to be 0.63 ppm. Therefore, the 95% UCL fell below the cleanup level of 10 ppm and no remediation is required.

Zone 2a mid: This group consists of 3 sample locations including 10 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 0.109 ppm and a maximum PCB concentration of 0.31 ppm. The data was determined to have a normal distribution and the 95% UCL was calculated to be 0.16 ppm. Therefore, the 95% UCL fell below the cleanup level of 10 ppm and no remediation is required.

Zone 2a high: This group consists of 13 sample locations including 61 total samples from depth of 0 to 2 feet. The data set had an average PCB concentration of 0.53 ppm and a maximum PCB concentration of 6.6 ppm. The data was determined to have a non-parametric distribution and the 95% UCL was calculated to be between 0.78 to 3.04 ppm. Therefore, the 95% UCL fell below the cleanup level of 10 ppm and no remediation is required.

#### Zone 2b.

Located on the west riverbank beginning half way between transects 120 and 122 and ending at half distance between transects 128 and 130. Data within the Zone was evaluated as one group only, high bank.

Zone 2b high: This group consists of 4 sample locations including 12 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 0.14 ppm and a maximum PCB concentration of 0.32 ppm. The data was determined to have a normal distribution and the 95% UCL was calculated to be 0.20 ppm. Therefore, the 95% UCL fell below the cleanup level of 10 ppm and no remediation is required.

#### Zone 2c.

Located on the west riverbank beginning half way between transects 120 and 122 and ending at half distance between transects 126 and 128. Data within the Zone was evaluated as one group only, mid bank.

Zone 2c mid: This group consists of 3 sample locations including 8 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 10.14 ppm and a maximum PCB concentration of 22.0 ppm. The data was determined to have a normal distribution and the 95% UCL was calculated to be 17.24 ppm. Therefore, the 95% UCL

exceeded the cleanup level of 10 ppm and additional calculations were performed on the 0-1 and 1-3 foot depths. The 0-1 foot depth data set did not have enough data to obtain a UCL result. The maximum PCB result within the data set was used as a UCL number, which was 22.0 ppm. Therefore, the 95% UCL for the 0-1 foot depth interval exceeded the cleanup level of 10 ppm. The 1-3 foot depth data set had an average PCB concentration of 2.74 ppm and a maximum PCB concentration of 8.4 ppm. The data was determined to have a lognormal distribution and the 95% UCL was calculated to be 7.88 ppm. Therefore, the 95% UCL fell below the cleanup level of 10 ppm. Since the UCL result for the 0-1 foot depth indicates that the PCB concentrations exceed the cleanup level of 10 ppm, 0-1 foot remediation is necessary.

#### Zone 2d.

Located on the west riverbank beginning half way between transects 126 and 128 and ending at transect 130. Data within the Zone was evaluated as one group only, mid bank.

Zone 2d mid: This group consists of 3 sample locations including 6 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 28.91 ppm and a maximum PCB concentration of 100.00 ppm. The data was determined to have a normal distribution and the 95% UCL was calculated to be 70.44 ppm. Therefore, the 95% UCL exceeded the cleanup level of 10 ppm and additional calculations were performed on the 0-1 and 1-3 foot depths. Both the 0-1 and the 1-3 foot depth data sets did not have enough data to obtain the UCL results. The maximum PCB result within each data set was used as a UCL number, for the 0-1 foot the result was 2.4 ppm and for the 1-3 foot the result was 100.00 ppm. The 95% UCL for the 0-1 foot depth interval fell below the cleanup level of 10 ppm; however the 1-3 foot UCL result exceeded the cleanup level. Since the UCL result for the 1-3 foot depth indicates that the PCB concentrations exceed the cleanup level of 10 ppm, 0-3 foot remediation is necessary.

#### Zone 3a.

Located on the west riverbank beginning half way between transects 130 and 132 and ending at transect 142. GE performed a temporary remediation (classified as an immediate response action or "IRA") in 1996 and 1997 in Zone 3a. However, 0-3 foot remediation was not performed in all areas of Zone 3a. Therefore, additional calculations were performed to determine if additional remediation is required. The PCB results for samples located in areas that were remediated were replaced by one-half the detection limit for clean backfill. In areas where remediation was not performed to a depth of three feet, pre-excavation data used. Data within the Zone was evaluated as one group only.

Zone 3a: This group consists of 29 sample locations including 161 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 9.59 ppm and a maximum PCB concentration of 700 ppm. The data was determined to have a non-parametric distribution and the 95% UCL was calculated to be between 17.27 and 42.95 ppm. Therefore, the 95% UCL exceeded the cleanup level of 10 ppm and additional calculations were performed. Since the Zone 3a riverbank has been previously

remediated by GE, individual sample locations and the previous limits of remediation were reviewed in detail. It appeared that there was an area within the riverbank in Zone 3a with one PCB sample result of 700 ppm that was not excavated during previous remediation efforts. The Zone 3a bank 0-3 foot data set was recalculated replacing the 700 ppm PCB result with one-half the detection limit of clean backfill (i.e., 0.05 ppm). The PCB average concentration changed to 4.95 ppm and the maximum PCB concentration became 100.00 ppm. The data was determined to have a non-parametric data distribution and the 95% UCL was calculated to be between 6.71 and 9.68, both of which are below the 10 ppm cleanup level. Therefore, additional 0-3 foot "hot spot" remediation is only required around sample point I8-4-7-22 and no remediation is required in the remainder of Zone 3a.

#### Zone 3.

Located on the west riverbank beginning half way between transects 144 and 146 and ending at transect 150. Data within the Zone was evaluated as two groups, mid bank and high bank.

Zone 3 mid: This group consists of 3 sample locations including 9 total samples from depths of 0 to 3 feet. The data set had an average PCB concentration of 38.99 ppm and a maximum PCB concentration of 93.00 ppm. The data was determined to have a normal distribution and the 95% UCL was calculated to be 59.89 ppm. Therefore, the 95% UCL exceeded the cleanup level of 10 ppm and additional calculations were performed on the 0-1 and 1-3 foot depths. The 0-1 foot depth data set had an average PCB concentration of 24.23 ppm and a maximum PCB concentration of 34.00 ppm. The data was determined to have a normal distribution and the 95% UCL was calculated to be 39.36 ppm. The 1-3 foot depth data set had an average PCB concentration of 53.75 ppm and a maximum PCB concentration of 93.00 ppm. The data was determined to have a normal distribution and the 95% UCL was calculated to be 99.70 ppm. Therefore, the 95% UCL for both the 0-1 and 1-3 foot depth exceeded the cleanup level of 10 ppm. Since the UCL results for both the 0-1 and the 1-3 foot depths indicate that the PCB concentrations exceed the cleanup level of 10 ppm, 0-3 foot remediation is necessary.

Zone 3 high: This group consists of 2 sample locations including 6 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 0.25 ppm and a maximum PCB concentration of 0.74 ppm. The data was determined to have a lognormal distribution and the 95% UCL was calculated to be 1.08 ppm. Therefore, the 95% UCL fell below the cleanup level of 10 ppm and no remediation is required.

#### East riverbank:

#### Zone 4.

Located on the east riverbank beginning on transects 108 and ending at half distance between transects 116 and 118. Data within the Zone was evaluated as three groups, low bank, mid bank and high bank.

The entire riverbank (toe to top of bank) in this zone was re-evaluated due to the following reasons:

- This zone includes the four residential properties that were reclassified to recreational properties. The EE/CA assumed a residential cleanup level.
- Data from one of the residential property lot was inadvertently excluded from the data analysis performed in the EE/CA
- Due to lack of access, one residential property was not sampled as part of the EE/CA sampling efforts. This property was sampled in the 2002 supplemental sampling event.

Zone 4 low: This group consists of 12 sample locations including 30 total samples from depths of 0 to 3 feet. The data set had an average PCB concentration of 15.18 ppm and a maximum PCB concentration 300.00 ppm. The data was determined to have a lognormal distribution and the 95% UCL was calculated to be 22.00 ppm. Therefore, the 95% UCL exceeded the cleanup level of 10 ppm and additional calculations were performed on the 0-1 and 1-3 foot depths. The 0-1 foot depth data set had an average PCB concentration of 31.73 ppm and a maximum PCB concentration of 300.00 ppm. The data was determined to have a lognormal distribution and the 95% UCL was calculated to be 171.34 ppm. The 1-3 foot depth data set had an average PCB concentration of 1.94 ppm and a maximum PCB concentration of 6.02 ppm. The data was determined to have a normal distribution and the 95% UCL was calculated to be 2.69 ppm. Therefore, the 95% UCL for the 0-1 foot depth exceeded the cleanup level of 10 ppm and 1-3 foot depth result fell below the cleanup level. Since the UCL result for the 0-1 foot depth indicates that the PCB concentrations exceed the cleanup level of 10 ppm, 0-1 foot remediation is necessary.

Zone 4 mid: This group consists of 11 sample locations including 33 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 6.39 ppm and a maximum PCB concentration of 42.00 ppm. The data was determined to have a lognormal distribution and the 95% UCL was calculated to be 19.22 ppm. Therefore, the 95% UCL exceeded the cleanup level of 10 ppm and additional calculations were performed on the 0-1 and 1-3 foot depths. The 0-1 foot depth data set had an average PCB concentration of 2.98 ppm and a maximum PCB concentration of 20.00 ppm. The data was determined to have a lognormal distribution and the 95% UCL was calculated to be 7.46 ppm. The 1-3 foot depth data set had an average PCB concentration of 8.56 ppm and a maximum PCB concentration of 42.00 ppm. The data was determined to have a lognormal distribution and the 95% UCL was calculated to be 35.97 ppm. The 95% UCL for the 0-1 foot depth interval fell below the cleanup level of 10 ppm; however the 1-3 foot UCL result exceeded the cleanup level. Since the UCL result for the 1-3 foot depth indicates that the PCB concentrations exceed the cleanup level of 10 ppm, 0-3 foot remediation is necessary.

Zone 4 high: This group consists of 6 sample locations including 19 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 0.66 ppm and a maximum PCB concentration of 3.6 ppm. The data was determined to have a lognormal distribution and the 95% UCL was calculated to be 1.11 ppm. Therefore, the 95% UCL fell below the cleanup level of 10 ppm and no remediation is required.

#### Zone 5.

Located on the east riverbank beginning half way between transects 116 and 118 and ending at half distance between transects 122 and 124. Data within the Zone was evaluated as two groups, mid bank and high bank.

Zone 5 mid: This group consists of 3 sample locations including 10 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 11.19 ppm and a maximum PCB concentration of 65.00 ppm. The data was determined to have a lognormal distribution and the 95% UCL was calculated to be 29.82 ppm. Therefore, the 95% UCL exceeded the cleanup level of 10 ppm and additional calculations were performed on the 0-1 and 1-3 foot depths. The 0-1 foot depth data set did not have enough data to obtain a UCL result. The maximum PCB result within the data set was used as a UCL number, which was 9.30 ppm. The 1-3 foot depth data set had an average PCB concentration of 13.96 ppm and a maximum PCB concentration of 65.00 ppm. The data was determined to have a lognormal distribution and the 95% UCL was calculated to be 82.22 ppm. The 95% UCL for the 0-1 foot depth interval fell below the cleanup level of 10 ppm; however the 1-3 foot UCL result exceeded the cleanup level. Since the UCL result for the 1-3 foot depth indicates that the PCB concentrations exceed the cleanup level of 10 ppm, 0-3 foot remediation is necessary.

Zone 5 high: This group consists of 3 sample locations including 9 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 1,733.65 ppm and a maximum PCB concentration of 13,000.00 ppm. The data was determined to have a lognormal distribution and the 95% UCL could not calculated due to the very high PCB result (13,000 ppm). Since the UCL could not be calculated the maximum result within the data set was used as a UCL number (13,000 ppm). Therefore, the 95% UCL exceeded the cleanup level of 10 ppm and additional calculations were performed on the 0-1 and 1-3 foot depths. The 0-1 foot depth data set did not have enough data to obtain a UCL result. The maximum PCB result within the data set was used as a UCL number, which was 100.00 ppm. The 1-3 foot depth data set had an average PCB concentration of 2,577.02 ppm and a maximum PCB concentration of 13,000.00 ppm. The data was determined to have a lognormal distribution and the 95% UCL could not calculated due to the very high PCB result (13,000 ppm). Since the UCL could not be calculated the maximum result within the data set was used as a UCL number, which was 13,000 ppm. Therefore, the 95% UCL for both the 0-1 and 1-3 foot depth exceeded the cleanup level of 10 ppm. Since the UCL result for both the 0-1 and 1-3 foot depth indicate that the PCB concentrations exceed the cleanup level of 10 ppm, 0-3 foot remediation is necessary.

#### Zone 6.

Located on the east riverbank beginning half way between transects 122 and 124 and ending at half distance between transects 128 and 130. Data within the Zone was evaluated as two groups, mid bank and high bank.

Zone 6 mid: This group consists of 3 sample locations including 9 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 30.77 ppm and a maximum PCB concentration of 84.00 ppm. The data was determined to have a normal distribution and the 95% UCL was calculated to be 48.98 ppm. Therefore, the 95% UCL exceeded the cleanup level of 10 ppm and additional calculations were performed on the 0-1 and 1-3 foot depths. The 0-1 foot depth data set did not have enough data to obtain a UCL result. The maximum PCB result within the data set was used as a UCL number, which was 84.00 ppm. The 1-3 foot depth data set had an average PCB concentration of 15.99 ppm and a maximum PCB concentration of 33.00 ppm. The data was determined to have a normal distribution and the 95% UCL was calculated to be 27.78 ppm. Therefore, the 95% UCL for both the 0-1 and 1-3 foot depth exceeded the cleanup level of 10 ppm. Since the UCL result for both the 0-1 and 1-3 foot depth indicate that the PCB concentrations exceed the cleanup level of 10 ppm, 0-3 foot remediation is necessary.

Zone 6 high: This group consists of 3 sample locations including 10 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 0.28 ppm and a maximum PCB concentration of 0.92 ppm. The data was determined to have a lognormal distribution and the 95% UCL was calculated to be 0.70 ppm. Therefore, the 95% UCL fell below the cleanup level of 10 ppm and no remediation is required.

#### Zone 7.

Located on the east riverbank beginning half way between transects 128 and 130 and ending at transect 150. Data within the Zone was evaluated as one group, mid/high bank.

Zone 7 mid/high: This group consists of 25 sample locations including 79 total samples from depth of 0 to 3 feet. The data set had an average PCB concentration of 1.36 ppm and a maximum PCB concentration of 37.00 ppm. The data was determined to have a non-parametric distribution and the 95% UCL was calculated to be between 2.33 and 4.09 ppm. Therefore, the 95% UCL fell below the cleanup level of 10 ppm and no remediation is required.

## Deep Residential PCB Evaluation: Greater than 3 Feet

For the Elm Street to Dawes Avenue section of the 1.5 Mile Reach, the EE/CA classified four properties as residential and the remaining riverbank properties were classified as recreational. These four residential properties are located immediately downstream of the Elm Street Bridge on the east side of the river. Two out of the four are commercial properties that contain residential apartments above stores and the remaining two are typical residential properties. After the EE/CA and the 2002 supplemental sampling was completed, EPA reached an agreement with the homeowners of the two residential properties to permanently relocate. The houses will be demolished and the properties turned over to the City of Pittsfield. Therefore, the riverbank on these two properties were reclassified as recreational areas. In addition, due to the extremely steep banks

(one of which consists entirely of a timber retaining wall) on the two commercial properties with apartments, EPA determined that access to these banks is very limited and that a recreational exposure scenario is more appropriate. Therefore, all riverbank soil from Elm Street to Dawes Avenue is now considered "recreational" for the purpose of determining cleanup levels and the evaluation of PCBs at depths greater than three feet on residential properties is no longer applicable.

## Appendix IX SVOC Data Evaluation

Based on a review of existing EE/CA data between Elm Street and Dawes Avenue, exceedances of applicable cleanup criteria were observed for selected Appendix IX (non-PCB) constituents. These exceedances were limited to SVOCs that are typically associated with coal gasification by-products such as coal tar.

The exceedances were located on the west riverbank from transects 108 to 130 and on the east riverbank at transect 110 and again from transects 130 to 150. On the west riverbank, the exceedances occurred at various bank heights, from lower bank samples to "uppermost" bank samples. Therefore, 18 additional samples (sixteen samples plus two duplicate samples) were collected and analyzed for Appendix IX SVOCs. These sample locations were spaced evenly between the previous "uppermost" bank sample locations and the top of bank. (Note: since exceedances of the cleanup criteria for other non-PCB compounds such as metals and VOCs were not observed in the EE/CA investigation, the additional sampling was limited to SVOCs.)

On the east riverbank at transect 110, the "mid bank" sample from the EE/CA contained exceedances of the SVOC cleanup criteria. Two additional samples were collected for SVOCs along this transect at elevations above those collected during the EE/CA and below the top of the bank. The SVOC exceedances identified in the EE/CA for transects 130 to 150 on the east bank were all in lower bank samples, with no exceedances in "mid" or "upper" bank samples. This indicates that elevated concentrations of SVOCs in this area are limited to the lower portion of the riverbank. Therefore, no further sampling or SVOC analysis is required between the "upper bank" EE/CA samples and the top of bank in this area.

Both the 2002 supplemental SVOC data and the existing SOVC data from the EE/CA were used in this report's Appendix IX SVOC data evaluation are shown in Table 2. All of these sample locations are shown on Figure 3. To determine if additional bank soil remediation beyond that necessary to address PCBs is necessary, a data evaluation process equivalent to that required of General Electric under the Consent Decree and equivalent to the one conducted in the EE/CA was performed. The first step in the process was to identify exposure/evaluation areas. Two exposure areas were identified. One exposure area is on the west riverbank and is located from transect 108 to 130. The exposure area encompasses the entire riverbank. A second exposure area is on the east riverbank and is located from transect 108 to 116. The exposure area encompasses the entire riverbank. The east riverbank exposure area was expanded beyond transect 110 to match the PCB riverbank zone/averaging area.

The exposure areas were then divided into polygons that represent each SVOC sample location. This was done both for sample locations from the EE/CA as well as new sample locations. See Figure 3. The SVOC sample results for samples located in areas subject to remediation to address PCBs were replaced with the detection limit obtained for samples collected from clean backfill. The resulting post-PCB remediation SVOC concentrations are shown in Table 4 for both exposure areas.

Next, the post-PCB remediation maximum value for each SVOC constituent was compared to the USEPA Region 9 Preliminary Remediation Goals (PRGs) for residential areas (recreational PRGs do not exist). If the maximum concentration exceeded the PRG, then the constituent was retained for further evaluation. The next step was to calculate the post-PCB remediation arithmetic average for each retained constituent. Then, the average constituent concentration was compared to the MCP Method 1 S-2 standards for soil to determine if further remediation is required. Table 5 summarizes this data evaluation.

To address the SVOC execeedances shown in Table 5, certain polygons were selected for remediation. The depth of remediation required for each polygon corresponds to the sample depth of the associated SVOC execeedance. The polygons that require additional remediation based on SVOC exceedances are shown on Figure 3. Sufficient polygons were selected for additional remediation such that the resulting maximum constituent concentration was less than the PRG or the average constituent concentration complied with the MCP Method 1 S-2 standard. The post-PCB, post-SVOC remediation SVOC constituent concentrations are shown in Table 6 and the post-PCB, post-SVOC Remediation SVOC maximum concentrations, average concentrations and data evaluations are shown in Table 7.

The final remediation limits to address PCBs and SVOCs from Elm Street to Dawes Avenue are shown in Figure 2.

TABLE 1
PCB Results used in the PCB UCL Calculations

#### **ZONE 1 LOW**

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000230	0 - 1	22
BS000230	0 - 1	22
BS000230	1 - 2	3.4
BS000230	2 - 3	1.2
BS000232	0 - 1	0.56
BS000232	1 - 2	1.9

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000232	2 - 3	0.27
BS000234	0 - 1	0.79
BS000234	0 - 1	0.79
BS000234	1 - 2	0.33
BS000234	2 - 3	0.17

#### **ZONE 1 MID**

Location ID	Depth (ft)	Total PCBs (ppm)
BS000231	0 - 1	0.082
BS000231	1 - 2	0.018U
BS000231	2 - 3	0.018U

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000233	0 - 1	0.22
BS000233	1 - 2	0.068
BS000233	2 - 3	0.14

#### **ZONE 1 HIGH**

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000229	0 - 1	0.27
BS000229	1 - 2	0.33J
BS000229	2 - 3	0.12
R87A000	0 - 0.5	0.2J
R87A000	0.5 - 1	0.5U
R87A000	1 - 1.5	0.6U
R87A000	1.5 - 2	0.6
R87A025	0 - 0.5	0.5U
R87A025	0.5 - 1	0.5U
R87A025	1 - 1.5	0.6U
R87A025	1.5 - 2	0.6U
R87A050	0 - 0.5	0.15
R87A050	0 - 0.5	0.6U
R87A050	0.5 - 1	0.4J
R87A050	1 - 1.5	0.4J
R87A050	1.5 - 2	1.3
R87A075	0 - 0.5	0.3J
R87A075	0.5 - 1	0.5J
R87A075	1 - 1.5	0. <b>4</b> J
R87A075	1.5 - 2	0.3J
R87A100	0 - 0.5	0.3J
R87A100	0 - 0.5	1.1U
R87A100	0.5 - 1	1.1
R87A100	1 - 1.5	0.7
R87A100	1.5 - 2	0.4J
R87A125	0 - 0.5	0.3J
R87A125	0.5 - 1	0.1U
R87A125	0.5 - 1	0.5U
R87A125	1 - 1.5	0.3J

		Total PCBs
Location ID	Depth (ft)	(ppm)
R87A175	1.5 - 2	0.9U
R87A200	0 - 0.5	0.4U
R87A200	0.5 - 1	0.3J
R87A200	0.5 - 1	0.5U
R87A200	1 - 1.5	0.6U
R87A200	1.5 - 2	0.5U
R87A225	0 - 0.5	0.4U
R87A225	0.5 - 1	0.6U
R87A225	1 - 1.5	0.4U
R87A225	1.5 - 2	0.5U
R87A250	0 - 0.5	1U
R87A250	0.5 - 1	0.6U
R87A250	1 - 1.5	1.1U
R87A250	1.5 - 2	0.1U
R87A250	1.5 - 2	0.5U
R87A275	0 - 0.5	1.4U
R87A275	0.5 - 1	1.3U
R87A275	1 - 1.5	2U
R87A275	1.5 - 2	1.2U
R87A300	0 - 0.5	0.5U
R87A300	0.5 - 1	1.6U
R87A300	1 - 1.5	1.1U
R87A300	1 - 1.5	1.2U
R87A300	1.5 - 2	11U
R87A325	0 - 0.5	0.1
R87A325	0 - 0.5	0.6U
R87A325	0.5 - 1	0.5U
R87A325	1 - 1.5	0.5J
R87A325	1.5 - 2	11

U - Non-detects

#### **ZONE 1 HIGH**

Location ID	Depth (ft)	Total PCBs (ppm)
R87A125	1.5 - 2	0.7
R87A175	0 - 0.5	0.7U
R87A175	0.5 - 1	0.5U
R87A175	1 - 1.5	0.29
R87A175	1 - 1.5	0.5U

Location ID	Depth (ft)	Total PCBs (ppm)
R87A350	0 - 0.5	0.6U
R87A350	0.5 - 1	0.3J
R87A350	1 - 1.5	0.7U
R87A350	1.5 - 2	0.6U

#### **ZONE 2a LOW**

Location ID	Depth (ft)	Total PCBs (ppm)
BS000236	0 - 1	0.15J
BS000236	0 - 1	0.34J
BS000236	1 - 2	0.031J
BS000236	2 - 3	0.019U
BS000238	0 - 1	0.02U

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000238	1 - 2	0.02U
BS000238	2 - 3	0.02U
BS000240	0 - 1	0.061
BS000240	0 - 1	0.78
BS000240	2 - 3	0.026J

#### **ZONE 2a MID**

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000235	0 - 1	0.075
BS000235	1 - 2	0.022U
BS000235	1 - 2	0.023U
BS000235	2 - 3	0.034
BS000237	0 - 1	0.31

			Total PCBs
	Location ID	Depth (ft)	(ppm)
	BS000237	1 - 2	0.15
	BS000237	2 - 3	0.077
-	BS000239	0 - 1	0.041
	BS000239	1 - 2	0.11
	BS000239	2 - 3	0.16

#### **ZONE 2a HIGH**

		Total PCBs
Location ID	Depth (ft)	(ppm)
R87A375	0 - 0.5	0.6U
R87A375	0.5 - 1	0.11
R87A375	0.5 - 1	0.3J
R87A375	1 - 1.5	0.8U
R87A375	1.5 - 2	0.7U
R87A400	0 - 0.5	0.6U
R87A400	0.5 - 1	0.5U
R87A400	1 - 1.5	0.6
R87A400	1.5 - 2	0.6U
R87A400	1.5 - 2	6.6U
R87A425	0 - 0.5	0.6U
R87A425	0.5 - 1	0.6U
R87A425	1 - 1.5	0.1U
R87A425	1 - 1.5	0.6U
R87A425	1.5 - 2	0.6U
R87A450	0 - 0.5	0.6U

		Total PCBs
Location ID	Depth (ft)	(ppm)
R87A525	1 - 1.5	0.6J
R87A525	1.5 - 2	0.5U
R87A550	0 - 0.5	0.6U
R87A550	0.5 - 1	0.7U
R87A550	1 - 1.5	0.7U
R87A550	1.5 - 2	0.6U
R87A575	0 - 0.5	0.07
R87A575	0 - 0.5	0.5U
R87A575	0.5 - 1	0.5U
R87A575	1 - 1.5	0.5U
R87A575	1.5 - 2	0.2J
R87A600	0 - 0.5	0.6U
R87A600	0.5 - 1	0.6U
R87A600	0.5 - 1	0.6U
R87A600	1 - 1.5	0.5U
R87A600	1.5 - 2	0.5U

U - Non-detects J - Indicates an estimated value

TABLE 1
PCB Results used in the PCB UCL Calculations

#### ZONE 2a HIGH

		Total PCBs
Location ID	Depth (ft)	(ppm)
R87A450	0.5 - 1	0.5U
R87A450	1 - 1.5	0.5U
R87A450	1.5 - 2	0.5U
R87A475	0 - 0.5	0.3J
R87A475	0.5 - 1	0.6U
R87A475	1 - 1.5	0.6U
R87A475	1.5 - 2	0.7U
R87A500	0 - 0.5	0.3J
R87A500	0 - 0.5	6U
R87A500	0.5 - 1	0.4J
R87A500	1 - 1.5	0.4J
R87A500	1.5 - 2	0.22
R87A500	1.5 - 2	0.3J
R87A525	0 - 0.5	0.6U
R87A525	0.5 - 1	0.9U

		Total PCBs
Location ID	Depth (ft)	(ppm)
R87A625	0 - 0.5	0.5U
R87A625	0.5 - 1	0.23
R87A625	0.5 - 1	0.2J
R87A625	1 - 1.5	0.6U
R87A625	1.5 - 2	0.6U
R87A650	0 - 0.5	0.5U
R87A650	0.5 - 1	0.5U
R87A650	1 - 1.5	0.5U
R87A650	1.5 - 2	11U
R87A675	0 - 0.5	0.7U
R87A675	0.5 - 1	0.5U
R87A675	1 - 1.5	0.09U
R87A675	1 - 1.5	0.6U
R87A675	1.5 - 2	0.6U

#### **ZONE 2b HIGH**

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000241	0 - 1	0.32
BS000241	1 - 2	0.26
BS000241	2 - 3	0.036
BS000243	0 - 1	0.095
BS000243	1 - 2	0.052
BS000243	2 - 3	0.064

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000245	0 - 1	0.2
BS000245	1 - 2	0.019U
BS000245	2 - 3	0.02U
BS000247	0 - 1	0.25
BS000247	1 - 2	0.27
BS000247	2 - 3	0.12

#### **ZONE 2c MID**

Location ID	Depth (ft)	Total PCBs (ppm)
BS000242	0 - 1	22J
BS000244	0 - 1	18
BS000244	1 - 2	8.4
BS000244	2 - 3	0.94

Location ID	Depth (ft)	Total PCBs (ppm)
BS000246	0 - 1	20.1
BS000246	1-2	0.63
BS000246	1-2	0.64
BS000246	2 - 3	0.99J

#### **ZONE 2d MID**

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000248	0 - 1	2.4
BS000248	1 - 2	42
BS000248	2 - 3	100

		Total PCBs
Location ID	Depth (ft)	(ppm)
I8-4-6-1	0 - 0.5	0.1U
18-4-6-2	0 - 0.5	0.1U
18-4-6-2	0 - 0.5	0.1U

U - Non-detects

**ZONE 3a** 

Location ID         Depth (ft)         (ppm)           BW0058A         0 - 0.08         1.2           BW0059A         0 - 0.08         11           BW0060A         0 - 0.08         3.4           I8-4-5-12         0 - 0.5         0.498           I8-4-5-12         0.5 - 1         2.19           I8-4-5-12         1 - 1.5         2.43           I8-4-5-12         1.5 - 2         0.413           I8-4-5-12         2 - 2.5         0.629           I8-4-5-12         2 - 2.5         0.629           I8-4-5-7         0 - 0.5         3.08           I8-4-5-7         1 - 1.5         6.26           I8-4-5-7         1 - 5 - 2         0.787           I8-4-5-7         1 - 5 - 2         0.787           I8-4-5-7         2 - 2.5         5.04           I8-4-5-7         2 - 2.5         5.04           I8-4-5-8         0 - 0.5         11.3           I8-4-5-8         0 - 0.5         17.7           I8-4-5-8         0 - 0.5         1.37           I8-4-5-8         1 - 1.5         0.148           I8-4-5-9         0 - 0.5         1.59           I8-4-5-9         1 - 1.5         0.773	
BW0059A         0 - 0.08         11           BW0060A         0 - 0.08         3.4           I8-4-5-12         0 - 0.5         0.498           I8-4-5-12         0.5 - 1         2.19           I8-4-5-12         1 - 1.5         2.43           I8-4-5-12         1.5 - 2         0.413           I8-4-5-12         2 - 2.5         0.629           I8-4-5-7         0 - 0.5         3.08           I8-4-5-7         0 - 0.5         3.08           I8-4-5-7         1 - 1.5         6.26           I8-4-5-7         1 - 5 - 2         0.787           I8-4-5-7         1 - 5 - 2         0.787           I8-4-5-7         2 - 2.5         5.04           I8-4-5-7         2 - 2.5         5.04           I8-4-5-8         0 - 0.5         11.3           I8-4-5-8         0 - 0.5         17.7           I8-4-5-8         0 - 0.5         17.7           I8-4-5-8         1 - 1.5         0.148           I8-4-5-9         0 - 0.5         1.59           I8-4-5-9         0.5 - 1         5.28           I8-4-5-9         1 - 1.5         0.773           I8-4-5-9         1 - 5.2         0.512 <t< td=""><td></td></t<>	
BW0060A         0 - 0.08         3.4           I8-4-5-12         0 - 0.5         0.498           I8-4-5-12         0.5 - 1         2.19           I8-4-5-12         1 - 1.5         2.43           I8-4-5-12         1.5 - 2         0.413           I8-4-5-12         2 - 2.5         0.629           I8-4-5-7         0 - 0.5         3.08           I8-4-5-7         0 - 0.5         1.5 - 2           I8-4-5-7         1 - 1.5         6.26           I8-4-5-7         1 - 5 - 2         0.787           I8-4-5-7         2 - 2.5         5.04           I8-4-5-7         2 - 2.5         5.04           I8-4-5-7         2 - 5 - 3         0.1U           I8-4-5-8         0 - 0.5         11.3           I8-4-5-8         0 - 0.5         17.7           I8-4-5-8         1 - 1.5         0.148           I8-4-5-8         1 - 5 - 2         0.258           I8-4-5-9         0 - 0.5         1.59           I8-4-5-9         1 - 1.5         0.773           I8-4-5-9         1 - 1.5         0.512           I8-4-5-9         1.5 - 2         0.512           I8-4-7-1         0 - 0.5         0.1U <td></td>	
18-4-5-12         0 - 0.5         0.498           18-4-5-12         0.5 - 1         2.19           18-4-5-12         1 - 1.5         2.43           18-4-5-12         1.5 - 2         0.413           18-4-5-12         2 - 2.5         0.629           18-4-5-12         2 - 2.5         0.629           18-4-5-7         0 - 0.5         3.08           18-4-5-7         0.5 - 1         7.55           18-4-5-7         1 - 1.5         6.26           18-4-5-7         1 - 5 - 2         0.787           18-4-5-7         2 - 2.5         5.04           18-4-5-7         2 - 2.5         5.04           18-4-5-7         2 - 5 - 3         0.1U           18-4-5-8         0 - 0.5         11.3           18-4-5-8         0 - 0.5         17.7           18-4-5-8         0 - 0.5         17.7           18-4-5-8         1 - 1.5         0.148           18-4-5-8         1 - 5 - 2         0.258           18-4-5-9         0 - 0.5         1.59           18-4-5-9         1 - 1.5         0.773           18-4-5-9         1 - 5 - 2         0.512           18-4-5-9         1 - 5 - 2         0.512	
18-4-5-12         0 - 0.5         0.498           18-4-5-12         0.5 - 1         2.19           18-4-5-12         1 - 1.5         2.43           18-4-5-12         1.5 - 2         0.413           18-4-5-12         2 - 2.5         0.629           18-4-5-12         2 - 2.5         0.629           18-4-5-7         0 - 0.5         3.08           18-4-5-7         0.5 - 1         7.55           18-4-5-7         1 - 1.5         6.26           18-4-5-7         1 - 5 - 2         0.787           18-4-5-7         2 - 2.5         5.04           18-4-5-7         2 - 2.5         5.04           18-4-5-7         2 - 5 - 3         0.1U           18-4-5-8         0 - 0.5         11.3           18-4-5-8         0 - 0.5         17.7           18-4-5-8         0 - 0.5         17.7           18-4-5-8         1 - 1.5         0.148           18-4-5-8         1 - 5 - 2         0.258           18-4-5-9         0 - 0.5         1.59           18-4-5-9         1 - 1.5         0.773           18-4-5-9         1 - 5 - 2         0.512           18-4-5-9         1 - 5 - 2         0.512	
18-4-5-12         1 - 1.5         2.43           18-4-5-12         1.5 - 2         0.413           18-4-5-12         2 - 2.5         0.629           18-4-5-7         0 - 0.5         3.08           18-4-5-7         0.5 - 1         7.55           18-4-5-7         1 - 1.5         6.26           18-4-5-7         1.5 - 2         0.787           18-4-5-7         2 - 2.5         5.04           18-4-5-7         2.5 - 3         0.1U           18-4-5-8         0 - 0.5         11.3           18-4-5-8         0 - 0.5         17.7           18-4-5-8         0.5 - 1         1.37           18-4-5-8         1 - 1.5         0.148           18-4-5-8         1.5 - 2         0.258           18-4-5-9         0 - 0.5         1.59           18-4-5-9         0.5 - 1         5.28           18-4-5-9         1 - 1.5         0.773           18-4-5-9         1.5 - 2         0.512           18-4-7-1         0 - 0.5         0.1U	
18-4-5-12         1.5 - 2         0.413           18-4-5-12         2 - 2.5         0.629           18-4-5-7         0 - 0.5         3.08           18-4-5-7         0.5 - 1         7.55           18-4-5-7         1 - 1.5         6.26           18-4-5-7         1.5 - 2         0.787           18-4-5-7         2 - 2.5         5.04           18-4-5-7         2.5 - 3         0.1U           18-4-5-8         0 - 0.5         11.3           18-4-5-8         0 - 0.5         17.7           18-4-5-8         0.5 - 1         1.37           18-4-5-8         1 - 1.5         0.148           18-4-5-8         1.5 - 2         0.258           18-4-5-9         0 - 0.5         1.59           18-4-5-9         0.5 - 1         5.28           18-4-5-9         1 - 1.5         0.773           18-4-5-9         1.5 - 2         0.512           18-4-7-1         0 - 0.5         0.1U	
18-4-5-12         2 - 2.5         0.629           18-4-5-7         0 - 0.5         3.08           18-4-5-7         0.5 - 1         7.55           18-4-5-7         1 - 1.5         6.26           18-4-5-7         1.5 - 2         0.787           18-4-5-7         2 - 2.5         5.04           18-4-5-7         2.5 - 3         0.1U           18-4-5-8         0 - 0.5         11.3           18-4-5-8         0 - 0.5         17.7           18-4-5-8         0.5 - 1         1.37           18-4-5-8         1 - 1.5         0.148           18-4-5-8         1.5 - 2         0.258           18-4-5-9         0 - 0.5         1.59           18-4-5-9         0.5 - 1         5.28           18-4-5-9         1 - 1.5         0.773           18-4-5-9         1.5 - 2         0.512           18-4-7-1         0 - 0.5         0.1U	
18-4-5-7     0 - 0.5     3.08       18-4-5-7     0.5 - 1     7.55       18-4-5-7     1 - 1.5     6.26       18-4-5-7     1.5 - 2     0.787       18-4-5-7     2 - 2.5     5.04       18-4-5-7     2.5 - 3     0.1U       18-4-5-8     0 - 0.5     11.3       18-4-5-8     0 - 0.5     17.7       18-4-5-8     0.5 - 1     1.37       18-4-5-8     1 - 1.5     0.148       18-4-5-8     1.5 - 2     0.258       18-4-5-9     0 - 0.5     1.59       18-4-5-9     0.5 - 1     5.28       18-4-5-9     1 - 1.5     0.773       18-4-5-9     1.5 - 2     0.512       18-4-7-1     0 - 0.5     0.1U	
18-4-5-7     0 - 0.5     3.08       18-4-5-7     0.5 - 1     7.55       18-4-5-7     1 - 1.5     6.26       18-4-5-7     1.5 - 2     0.787       18-4-5-7     2 - 2.5     5.04       18-4-5-7     2.5 - 3     0.1U       18-4-5-8     0 - 0.5     11.3       18-4-5-8     0 - 0.5     17.7       18-4-5-8     0.5 - 1     1.37       18-4-5-8     1 - 1.5     0.148       18-4-5-8     1.5 - 2     0.258       18-4-5-9     0 - 0.5     1.59       18-4-5-9     0.5 - 1     5.28       18-4-5-9     1 - 1.5     0.773       18-4-5-9     1.5 - 2     0.512       18-4-7-1     0 - 0.5     0.1U	
18-4-5-7         1 - 1.5         6.26           18-4-5-7         1.5 - 2         0.787           18-4-5-7         2 - 2.5         5.04           18-4-5-7         2.5 - 3         0.1U           18-4-5-8         0 - 0.5         11.3           18-4-5-8         0 - 0.5         17.7           18-4-5-8         0.5 - 1         1.37           18-4-5-8         1 - 1.5         0.148           18-4-5-8         1.5 - 2         0.258           18-4-5-9         0 - 0.5         1.59           18-4-5-9         0.5 - 1         5.28           18-4-5-9         1 - 1.5         0.773           18-4-5-9         1.5 - 2         0.512           18-4-7-1         0 - 0.5         0.1U	
18-4-5-7     1.5 - 2     0.787       18-4-5-7     2 - 2.5     5.04       18-4-5-7     2.5 - 3     0.1U       18-4-5-8     0 - 0.5     11.3       18-4-5-8     0 - 0.5     17.7       18-4-5-8     0.5 - 1     1.37       18-4-5-8     1 - 1.5     0.148       18-4-5-8     1.5 - 2     0.258       18-4-5-9     0 - 0.5     1.59       18-4-5-9     0.5 - 1     5.28       18-4-5-9     1 - 1.5     0.773       18-4-5-9     1.5 - 2     0.512       18-4-7-1     0 - 0.5     0.1U	
18-4-5-7         2 - 2.5         5.04           18-4-5-7         2.5 - 3         0.1U           18-4-5-8         0 - 0.5         11.3           18-4-5-8         0 - 0.5         17.7           18-4-5-8         0.5 - 1         1.37           18-4-5-8         1 - 1.5         0.148           18-4-5-8         1 - 5 - 2         0.258           18-4-5-9         0 - 0.5         1.59           18-4-5-9         0.5 - 1         5.28           18-4-5-9         1 - 1.5         0.773           18-4-5-9         1.5 - 2         0.512           18-4-7-1         0 - 0.5         0.1U	
18-4-5-7         2.5 - 3         0.1U           18-4-5-8         0 - 0.5         11.3           18-4-5-8         0 - 0.5         17.7           18-4-5-8         0.5 - 1         1.37           18-4-5-8         1 - 1.5         0.148           18-4-5-8         1.5 - 2         0.258           18-4-5-9         0 - 0.5         1.59           18-4-5-9         0.5 - 1         5.28           18-4-5-9         1 - 1.5         0.773           18-4-5-9         1.5 - 2         0.512           18-4-7-1         0 - 0.5         0.1U	
18-4-5-8     0 - 0.5     11.3       18-4-5-8     0 - 0.5     17.7       18-4-5-8     0.5 - 1     1.37       18-4-5-8     1 - 1.5     0.148       18-4-5-8     1.5 - 2     0.258       18-4-5-9     0 - 0.5     1.59       18-4-5-9     0.5 - 1     5.28       18-4-5-9     1 - 1.5     0.773       18-4-5-9     1.5 - 2     0.512       18-4-7-1     0 - 0.5     0.1U	
18-4-5-8         0 - 0.5         17.7           18-4-5-8         0.5 - 1         1.37           18-4-5-8         1 - 1.5         0.148           18-4-5-8         1.5 - 2         0.258           18-4-5-9         0 - 0.5         1.59           18-4-5-9         0.5 - 1         5.28           18-4-5-9         1 - 1.5         0.773           18-4-5-9         1.5 - 2         0.512           18-4-7-1         0 - 0.5         0.1U	
18-4-5-8         0 - 0.5         17.7           18-4-5-8         0.5 - 1         1.37           18-4-5-8         1 - 1.5         0.148           18-4-5-8         1.5 - 2         0.258           18-4-5-9         0 - 0.5         1.59           18-4-5-9         0.5 - 1         5.28           18-4-5-9         1 - 1.5         0.773           18-4-5-9         1.5 - 2         0.512           18-4-7-1         0 - 0.5         0.1U	
18-4-5-8     0.5 - 1     1.37       18-4-5-8     1 - 1.5     0.148       18-4-5-8     1.5 - 2     0.258       18-4-5-9     0 - 0.5     1.59       18-4-5-9     0.5 - 1     5.28       18-4-5-9     1 - 1.5     0.773       18-4-5-9     1.5 - 2     0.512       18-4-7-1     0 - 0.5     0.1U	
18-4-5-8     1 - 1.5     0.148       18-4-5-8     1.5 - 2     0.258       18-4-5-9     0 - 0.5     1.59       18-4-5-9     0.5 - 1     5.28       18-4-5-9     1 - 1.5     0.773       18-4-5-9     1.5 - 2     0.512       18-4-7-1     0 - 0.5     0.1U	
18-4-5-9     0 - 0.5     1.59       18-4-5-9     0.5 - 1     5.28       18-4-5-9     1 - 1.5     0.773       18-4-5-9     1.5 - 2     0.512       18-4-7-1     0 - 0.5     0.1U	
18-4-5-9     0.5 - 1     5.28       18-4-5-9     1 - 1.5     0.773       18-4-5-9     1.5 - 2     0.512       18-4-7-1     0 - 0.5     0.1U	
I8-4-5-9     1 - 1.5     0.773       I8-4-5-9     1.5 - 2     0.512       I8-4-7-1     0 - 0.5     0.1U	
18-4-5-9	
18-4-7-1 0 - 0.5 0.1U	
	$\neg$
18-4-7-1 0.5 - 1 0.1U	
18-4-7-1 1 - 1.5 0.1U	$\neg$
18-4-7-1 1.5 - 2 0.1U	$\neg$
18-4-7-1 2 - 2.5 0.1U	
18-4-7-1 2.5 - 3 0.1U	$\neg$
18-4-7-10 0 - 0.5 2.71	$\neg$
18-4-7-10 0.5 - 1 2.1	$\neg$
18-4-7-10 1 - 1.5 4.45	一
18-4-7-10 1.5 - 2 23.6	ヿ
18-4-7-10 2 - 2.5 34.7	$\neg$
18-4-7-10 2.5 - 3 7.84	$\neg$
18-4-7-11 0 - 0.5 4.64	コ
18-4-7-11 0.5 - 1 13.3	$\neg$
18-4-7-11 1 - 1.5 26.1	一
18-4-7-11 1.5 - 2 59.5	一
18-4-7-11 2 - 2.5 8.99	$\neg$
18-4-7-11 2.5 - 3 8.66	$\neg$
18-4-7-12 0 - 0.5 0.1U	ヿ
18-4-7-12 0.5 - 1 0.1U	ヿ
18-4-7-12 1 - 1.5 0.1U	一
18-4-7-12 1.5 - 2 0.1U	
18-4-7-12 1.5 - 2 0.1U	ᅱ
18-4-7-12 2 - 2.5 100	

		Total PCBs
Location ID	Depth (ft)	(ppm)
18-4-7-18	0 - 0.5	0.1U
18-4-7-18	0.5 - 1	0.1U
18-4-7-18	1 - 1.5	0.1U
18-4-7-18	1.5 - 2	0.1U
18-4-7-18	2 - 2.5	0.1U
18-4-7-18	2.5 - 3	0.1U
18-4-7-19	0 - 0.5	0.1U
18-4-7-19	0 - 0.5	0.1U
18-4-7-19	0.5 - 1	0.1U
18-4-7-19	1 - 1.5	0.1U
18-4-7-19	1.5 - 2	0.1U
18-4-7-19	2 - 2.5	0.1U
18-4-7-19	2.5 - 3	0.1U
18-4-7-20	0 - 0.5	0.1U
18-4-7-20	0.5 - 1	0.1U
18-4-7-20	1 - 1.5	0.1U
18-4-7-20	1.5 - 2	0.1U
18-4-7-20	2 - 2.5	0.1U
18-4-7-20	2.5 - 3	0.1U
18-4-7-22	0 - 0.5	0.1U
18-4-7-22	0.5 - 1	0.1U
18-4-7-22	1 - 1.5	0.1U
18-4-7-22	1.5 - 2	0.1U
18-4-7-22	2 - 2.5	700
18-4-7-22	2.5 - 3	6.8
18-4-7-23	0 - 0.5	0.1U
18-4-7-23	0 - 0.5	0.1U
18-4-7-23	0.5 - 1	0.1U
18-4-7-23	1 - 1.5	0.1U
18-4-7-23	1.5 - 2	0.1U
18-4-7-23	2 - 2.5	0.1U
18-4-7-23	2.5 - 3	0.1U
18-4-7-24	0 - 0.5	0.1U
18-4-7-24 18-4-7-24	0.5 - 1 1 - 1.5	0.1U
		0.1U
18-4-7-24	1.5 - 2	0.1U
18-4-7-24	2 - 2.5	0.1U
18-4-7-24	2.5 - 3	0.1U
18-4-7-25 18-4-7-25	0 - 0.5 0 - 0.5	1.88
18-4-7-25	0.5 - 1	1.87 3.58
18-4-7-25	1 - 1.5	1.2
18-4-7-25	1.5 - 2	0.961
18-4-7-25	2 - 2.5	1.15
18-4-7-25	2.5 - 3	15.1
18-4-7-26	0 - 0.5	1.49
18-4-7-26	0.5 - 1	1.8
10-7-1-20	0.0 - 1	1.0

U - Non-detects

TABLE 1
PCB Results used in the PCB UCL Calculations

ZONE 3a

		Total PCBs
Location ID	Depth (ft)	(ppm)
18-4-7-12	2.5 - 3	38.7
18-4-7-13	0 - 0.5	0.1U
18-4-7-13	0.5 - 1	0.1U
18-4-7-13	1 - 1.5	0.1U
18-4-7-13	1.5 - 2	0.1U
18-4-7-13	2 - 2.5	73.1
18-4-7-13	2.5 - 3	24.5
18-4-7-14	0 - 0.5	3.14
18-4-7-14	0.5 - 1	2.52
18-4-7-14	1 - 1.5	2.49
18-4-7-14	1.5 - 2	4.66
18-4-7-14	2 - 2.5	0.925
18-4-7-14	2.5 - 3	1.54
18-4-7-15	0 - 0.5	0.1U
18-4-7-15	0 - 0.5	0.1U
18-4-7-15	0.5 - 1	0.1U
18-4-7-15	1 - 1.5	11.4
18-4-7-15	1.5 - 2	3.92
18-4-7-15	2 - 2.5	7.69
18-4-7-15	2.5 - 3	6.24
18-4-7-16	0 - 0.5	2.75
18-4-7-16	0.5 - 1	7.57
18-4-7-16	1 - 1.5	5.08
18-4-7-16	1.5 - 2	1.47
18-4-7-16	1.5 - 2	1.81
18-4-7-16	2 - 2.5	1.22
18-4-7-16	2.5 - 3	0.324
18-4-7-17	0 - 0.5	0.1U
18-4-7-17	0 - 0.5	0.1U
18-4-7-17	0.5 - 1	0.1U
18-4-7-17	1 - 1.5	0.1U
18-4-7-17	1.5 - 2	0.1U
18-4-7-17	2 - 2.5	0.1U
18-4-7-17	2.5 - 3	0.1U

		Total PCBs
Location ID	Depth (ft)	(ppm)
18-4-7-26	1 - 1.5	1.41
18-4-7-26	1.5 - 2	1.82
18-4-7-26	2 - 2.5	0.826
18-4-7-26	2.5 - 3	0.139
18-4-7-4	0 - 0.5	0.1U
18-4-7-4	0 - 0.5	0.1U
18-4-7-4	0.5 - 1	0.1U
18-4-7-4	1 - 1.5	0.1U
18-4-7-4	1.5 - 2	0.1U
18-4-7-4	2 - 2.5	0.1U
18-4-7-4	2.5 - 3	0.1U
18-4-7-6	0 - 0.5	0.1U
18-4-7-6	0.5 - 1	0.1U
18-4-7-6	1 - 1.5	0.1U
18-4-7-6	1.5 - 2	0.1U
18-4-7-6	2 - 2.5	0.1U
18-4-7-6	2.5 - 3	0.1U
18-4-7-7	0 - 0.5	6.02
18-4-7-7	0.5 - 1	3.13
18-4-7-7	1 - 1.5	11.4
18-4-7-7	1.5 - 2	9.57
18-4-7-7	2 - 2.5	66.9
18-4-7-7	2.5 - 3	31
18-4-7-8	0 - 0.5	0.442
18-4-7-8	0.5 - 1	0.275
18-4-7-8	1 - 1.5	0.1U
18-4-7-8	1.5 - 2	0.1U
18-4-7-9	0 - 0.5	5.23
18-4-7-9	0.5 - 1	4.84
18-4-7-9	0.5 - 1	4.55
18-4-7-9	1 - 1.5	0.611
18-4-7-9	1.5 - 2	1.05
18-4-7-9	2 - 2.5	0.426

#### **ZONE 3 MID**

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000250	0 - 1	6.9
BS000250	1 - 2	11
BS000250	2 - 3	31
BS000252	0 - 1	22
BS000252	1 - 2	93

Location ID	Depth (ft)	Total PCBs (ppm)
BS000252	2 - 3	80
17-21-3-3	0 - 0.5	33
17-21-3-3	0 - 0.5	35
17-21-3-3	0.5 - 1	34

U - Non-detects

#### **ZONE 3 HIGH**

Location ID	Depth (ft)	Total PCBs (ppm)
BS000249	0 - 1	0.18
BS000249	1 - 2	0.058
BS000249	2 - 3	0.14

	Location ID	Depth (ft)	Total PCBs (ppm)
1	BS000251	0 - 1	0.12
	BS000251	1 - 2	0.25
1	BS000251	2 - 3	0.74

#### **ZONE 4 LOW**

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000321	0 - 1	0.8
BS000337	0 - 1	19
BS000337	1 - 2	1.1
BS000337	2 - 3	2.2
R85AZ074	0 - 0.5	300
R85AZ074	1 - 1.5	2.9
R85AZ074	2 - 2.5	3.1
R85BZ080	0 - 0.5	0.7J
R85BZ080	1 - 1.5	1.6J
R85BZ080	2 - 2.5	1.5J
R85CZ093	0 - 0.5	0.7U
R85CZ093	1 - 1.5	0.6U
R85CZ093	2 - 2.5	0.12U
R85CZ093	2 - 2.5	0.5U
R85DZ105	0 - 0.5	0.35

		Total PCBs
Location ID	Depth (ft)	(ppm)
R85DZ105	0 - 0.5	0.7U
R85DZ105	1 - 1.5	0.5U
R85DZ105	2 - 2.5	0.6U
RB021104	0 - 0.5	6.32
RB021105	0 - 0.5	8J
RB021105	0 - 0.5	17.1J
RB021105	1 - 1.5	3.13
RB021105	2 - 2.5	0.778U
RB021106	0 - 0.5	4.77
RB021164	0 - 0.5	22.8J
RB021165	0 - 0.5	4.64
RB021165	1 - 1.5	3.84
RB021166	0 - 0.5	8.46
RB021166	1 - 1.5	1.99
RB021166	2 - 2.5	6.02

#### **ZONE 4 MID**

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000254	0 - 1	0.65J
BS000254	1 - 2	6.5
BS000254	2 - 3	22
BS000256	0 - 1	0.16
BS000256	1 - 2	0.062
BS000256	2 - 3	0.33
BS000315	0 - 1	3.3
BS000315	1 - 2	42J
BS000315	2 - 3	1.3
BS000317	0 - 1	20
BS000317	1 - 2	17
BS000317	2 - 3	35
BS000317	2 - 3	36
BS000328	0 - 1	1.4
BS000338	0 - 1	1.6J
B\$000338	1 - 2	13
BS000338	2 - 3	3

		Total PCBs
Location ID	Depth (ft)	(ppm)
R85AZ066	0 - 0.5	2.2
R85AZ066	1 - 1.5	2.3
R85AZ066	2 - 2.5	1.4
R85BZ070	0 - 0.5	0.6U
R85BZ070	1 - 1.5	0.5J
R85BZ070	2 - 2.5	0.4J
R85CZ081	0 - 0.5	0.6
R85CZ081	1 - 1.5	0.23
R85CZ081	1 - 1.5	0.4J
R85CZ081	2 - 2.5	24
R85CZ087	0 - 0.5	0.5U
R85CZ087	1 - 1.5	0.5U
R85CZ087	2 - 2.5	0.6U
R85DZ095	0 - 0.5	2.3J
R85DZ095	1 - 1.5	0.6U
R85DZ095	2 - 2.5	0.6J

U - Non-detects

#### **ZONE 4 HIGH**

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000253	0 - 1	0.37
BS000253	1 - 2	0.062
BS000253	2 - 3	0.61
BS000255	0 - 1	1
BS000255	1 - 2	3.6J
BS000255	2 - 3	0.18
BS000320	0 - 1	0.93
BS000320	1 - 2	0.85
BS000320	2 - 3	0.4
R85AZ058	0 - 0.5	1.2

Location ID	Depth (ft)	Total PCBs (ppm)
R85AZ058	1 - 1.5	0.5J
R85AZ058	2 - 2.5	0.5U
R85BZ060	0 - 0.5	0.11U
R85BZ060	0 - 0.5	0.5U
R85BZ060	1 - 1.5	0.5U
R85BZ060	2 - 2.5	0.6U
R85DZ085	0 - 0.5	0.6U
R85DZ085	1 - 1.5	0.6U
R85DZ085	2 - 2.5	0.5U

#### **ZONE 5 MID**

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000258	0 - 1	9.3
BS000258	1 - 2	5.3J
BS000258	1 - 2	5.4J
BS000258	2 - 3	0.9
BS000260	0 - 1	1.2J

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000260	1 - 2	0.8
BS000260	2 - 3	5.5J
BS000262	0 - 1	6.5J
BS000262	1 - 2	65
BS000262	2 - 3	6.2

#### **ZONE 5 HIGH**

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000257	0 - 1	100
BS000257	1 - 2	13000
BS000257	2 - 3	2400
BS000259	0 - 1	33
BS000259	1 - 2	58

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000259	2-3	1.1J
BS000261	0 - 1	7.7J
BS000261	1 - 2	2.1J
BS000261	2 - 3	0.93

#### **ZONE 6 MID**

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000264	0 - 1	72J
BS000264	1 - 2	33
BS000264	2 - 3	11
BS000266	0 - 1	84
BS000266	1 - 2	16

	Location ID	Depth (ft)	Total PCBs (ppm)
	BS000266	2 - 3	33J
1	BS000268	0 - 1	25
	BS000268	1 - 2	0.36
	B\$000268	2 - 3	2.6

U - Non-detects

#### ZONE 6 HIGH

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000263	0 - 1	0.33
BS000263	1 - 2	0.28
BS000263	2 - 3	0.16
BS000265	0 - 1	0.11
B\$000265	1 - 2	0.049

		Total PCBs
Location ID	Depth (ft)	(ppm)
BS000265	2 - 3	0.92
BS000267	0 - 1	0.18
BS000267	1 - 2	0.35
BS000267	2 - 3	0.086
BS000267	2 - 3	0.12

#### ZONE 7 MID/HIGH

		Total PCBs
Location ID	Depth (ft)	(ppm)
BE-0017	0 - 0.5	0.5
BE-0017	1 - 1.5	0.5U
BE-0017	2 - 2.5	0.5U
BS000269	0 - 1	0.019U
BS000269	1 - 2	0.018U
BS000269	2 - 3	0.08
BS000271	0 - 1	0.077
BS000271	1 - 2	0.055
BS000271	2 - 3	0.019U
BS000273	0 - 1	3.4
BS000273	1 - 2	15
BS000273	2 - 3	25
BS000275	0 - 1	0.99J
BS000275	1 - 2	0.52
BS000275		0.58
BS000277	2 - 3 0 - 1	0.27J
BS000277	1-2	0.098
BS000277	2 - 3	0.019U
BS000279	0 - 1	0.45J
BS000279	1 - 2	0.48J
BS000279	2 - 3	0.071J
BS000281	0 - 1	0.17
BS000281	0 - 1	0.18
BS000281	1 - 2	0.22
BS000281	2 - 3 0 - 1	0.25
BS000283		0.95J
BS000283	1 - 2	2.2J
BS000283	2 - 3	0.93J
BS000285	0 - 1	0.19J
BS000285	1 - 2	0.031
BS000285	2 - 3	0.046J
BS000287	0 - 1	0.11
BS000287	0 - 1	0.12
BS000287	1 - 2	0.022J
BS000287	2 - 3	0.019U
BE-0014	0 - 0.5	0.5U
BE-0014	1 - 1.5	0.5U
BE-0014	2 - 2.5	0.5
BE-0020	0 - 0.5	0.5U
BE-0020	1 - 1.5	0.5

Location ID         Depth (ft)         (ppm)           BE-0020         2 - 2.5         0.5U           BE-0023         0 - 0.5         0.5           BE-0023         1 - 1.5         0.5           BE-0026         0 - 0.5         0.5U           BE-0026         1 - 1.5         0.5U           BE-0026         2 - 2.5         37           BE-0029         0 - 0.5         0.5U           BE-0029         1 - 1.5         0.5U           BE-0029         1 - 1.5         0.5U           BE-0029         1 - 1.5         0.5U           BE-0029         2 - 2.5         0.5U           BS000270         2 - 3         0.019U           BS000272			Total PCBs
BE-0023         0 - 0.5         0.5           BE-0023         1 - 1.5         0.5           BE-0026         0 - 0.5         0.5U           BE-0026         1 - 1.5         0.5U           BE-0026         1 - 1.5         0.5U           BE-0029         0 - 0.5         0.5U           BE-0029         0 - 0.5         0.5U           BE-0029         1 - 1.5         0.5U           BE-0029         2 - 2.5         0.5U           BS-00270         1 - 2         0.019U           BS000272         0 - 1         0.15           BS000274         <	Location ID		(ppm)
BE-0023         0 - 0.5         0.5           BE-0023         1 - 1.5         0.5           BE-0026         0 - 0.5         0.5U           BE-0026         1 - 1.5         0.5U           BE-0026         1 - 1.5         0.5U           BE-0029         0 - 0.5         0.5U           BE-0029         0 - 0.5         0.5U           BE-0029         1 - 1.5         0.5U           BE-0029         2 - 2.5         0.5U           BS-00270         1 - 2         0.019U           BS000272         0 - 1         0.15           BS000274         <		2 - 2.5	0.5U
BE-0023         2 - 2.5         0.5U           BE-0026         0 - 0.5         0.5U           BE-0026         1 - 1.5         0.5U           BE-0026         2 - 2.5         37           BE-0029         0 - 0.5         0.5U           BE-0029         1 - 1.5         0.5U           BE-0029         2 - 2.5         0.5U           BS000270         0 - 1         0.041           BS000270         1 - 2         0.019U           BS000270         2 - 3         0.019U           BS000272         0 - 1         0.21           BS000272         1 - 2         0.021           BS000272         2 - 3         0.019U           BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000274         2 - 3         0.079           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000278         0 - 1         1.4           BS000278         1 - 2         0.1           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000284 <td< td=""><td></td><td>0 - 0.5</td><td>0.5</td></td<>		0 - 0.5	0.5
BE-0026         0 - 0.5         0.5U           BE-0026         1 - 1.5         0.5U           BE-0029         0 - 0.5         0.5U           BE-0029         0 - 0.5         0.5U           BE-0029         1 - 1.5         0.5U           BE-0029         2 - 2.5         0.5U           BS000270         0 - 1         0.041           BS000270         1 - 2         0.019U           BS000270         2 - 3         0.019U           BS000272         0 - 1         0.21           BS000272         1 - 2         0.021           BS000272         2 - 3         0.019U           BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000274         2 - 3         0.079           BS000276         0 - 1         0.58           BS000276         2 - 3         0.019U           BS000278         0 - 1         1.4           BS000278         1 - 2         0.1           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000280         2 - 3         0.019U           BS000284	BE-0023	1 - 1.5	0.5
BE-0026         1 - 1.5         0.5U           BE-0029         2 - 2.5         37           BE-0029         0 - 0.5         0.5U           BE-0029         2 - 2.5         0.5U           BE-0029         2 - 2.5         0.5U           BS000270         0 - 1         0.041           BS000270         1 - 2         0.019U           BS000270         2 - 3         0.019U           BS000272         0 - 1         0.21           BS000272         1 - 2         0.021           BS000272         2 - 3         0.019U           BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000274         2 - 3         0.079           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000278         1 - 2         0.1           BS000278         1 - 2         0.1           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000280         2 - 3         0.019U           BS000284	BE-0023	2 - 2.5	0.5U
BE-0026         1 - 1.5         0.5U           BE-0026         2 - 2.5         37           BE-0029         0 - 0.5         0.5U           BE-0029         1 - 1.5         0.5U           BE-0029         2 - 2.5         0.5U           BS000270         0 - 1         0.041           BS000270         1 - 2         0.019U           BS000270         2 - 3         0.019U           BS000272         0 - 1         0.21           BS000272         1 - 2         0.021           BS000272         2 - 3         0.019U           BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000274         2 - 3         0.079           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000280         2 - 3         0.019U           BS000284		0 - 0.5	0.5U
BE-0029         0 - 0.5         0.5U           BE-0029         1 - 1.5         0.5U           BE-0029         2 - 2.5         0.5U           BS000270         0 - 1         0.041           BS000270         1 - 2         0.019U           BS000270         2 - 3         0.019U           BS000272         0 - 1         0.21           BS000272         1 - 2         0.021           BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000274         2 - 3         0.079           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.02           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000284         0 - 1         0.18           BS000284         0 - 1         1           BS000286 <td< td=""><td></td><td>1 - 1.5</td><td>0.5U</td></td<>		1 - 1.5	0.5U
BE-0029         1 - 1.5         0.5U           BE-0029         2 - 2.5         0.5U           BS000270         0 - 1         0.041           BS000270         1 - 2         0.019U           BS000270         2 - 3         0.019U           BS000272         0 - 1         0.21           BS000272         1 - 2         0.021           BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000274         2 - 3         0.079           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000278         1 - 2         0.1           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000280         2 - 3         0.019U           BS000280         2 - 3         0.019U           BS000284         0 - 1         1,7           BS000284         0 - 1         1,7           BS000286 <t< td=""><td></td><td></td><td></td></t<>			
BE-0029         2 - 2.5         0.5U           BS000270         0 - 1         0.041           BS000270         1 - 2         0.019U           BS000272         0 - 1         0.21           BS000272         1 - 2         0.021           BS000272         2 - 3         0.019U           BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000274         2 - 3         0.079           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000278         1 - 2         0.1           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000280         2 - 3         0.019U           BS000284         0 - 1         0.18           BS000284         1 - 2         0.074           BS000286         0 - 1         0.27J           BS000286         <		0 - 0.5	
BS000270         0 - 1         0.041           BS000270         1 - 2         0.019U           BS000270         2 - 3         0.019U           BS000272         0 - 1         0.21           BS000272         1 - 2         0.021           BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000274         2 - 3         0.079           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000276         2 - 3         0.019U           BS000278         1 - 2         0.1           BS000278         1 - 2         0.1           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000280         2 - 3         0.019U           BS000281         1 - 2         0.074           BS000282         0 - 1         0.18           BS000284         0 - 1         1,7           BS000284         0 - 1         0.27J           BS000286         <	BE-0029		0.5U
BS000270         1 - 2         0.019U           BS000272         2 - 3         0.019U           BS000272         0 - 1         0.21           BS000272         1 - 2         0.021           BS000272         2 - 3         0.019U           BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000276         2 - 3         0.019U           BS000278         1 - 2         0.1           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000280         2 - 3         0.019U           BS000282         0 - 1         0.18           BS000284         0 - 1         1           BS000284         1 - 2         0.074           BS000286         0 - 1         0.27J           BS000286 <td< td=""><td>BE-0029</td><td></td><td>0.5U</td></td<>	BE-0029		0.5U
BS000270         2 - 3         0.019U           BS000272         0 - 1         0.21           BS000272         1 - 2         0.021           BS000272         2 - 3         0.019U           BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000276         2 - 3         0.019U           BS000278         0 - 1         1.4           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000280         2 - 3         0.019U           BS000282         1 - 2         0.074           BS000284         0 - 1         1J           BS000284         1 - 2         0.7J           BS000286         0 - 1         0.27J           BS000286         0 - 1         0.12           BS000288	BS000270		0.041
BS000272         0 - 1         0.21           BS000272         1 - 2         0.021           BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000274         1 - 2         0.019U           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000278         0 - 1         1.4           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000280         2 - 3         0.019U           BS000282         1 - 2         0.074           BS000284         0 - 1         1J           BS000284         1 - 2         0.074           BS000284         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000288         0 - 1         0.12           BS000288         0	BS000270		0.019U
BS000272         1 - 2         0.021           BS000272         2 - 3         0.019U           BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000278         0 - 1         1.4           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000280         2 - 3         0.019U           BS000282         0 - 1         0.18           BS000284         0 - 1         1.7           BS000284         0 - 1         1.7           BS000284         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         0 - 1         0.12	BS000270		0.019U
BS000272         2 - 3         0.019U           BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000274         2 - 3         0.079           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000278         0 - 1         1.4           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000280         2 - 3         0.019U           BS000282         0 - 1         0.18           BS000284         0 - 1         1J           BS000284         1 - 2         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U	BS000272		0.21
BS000272         2 - 3         0.019U           BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000274         2 - 3         0.079           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000278         0 - 1         1.4           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000280         2 - 3         0.019U           BS000282         0 - 1         0.18           BS000284         0 - 1         1J           BS000284         1 - 2         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U			0.021
BS000274         0 - 1         0.15           BS000274         1 - 2         0.019U           BS000276         2 - 3         0.079           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000278         0 - 1         1.4           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000282         0 - 1         0.18           BS000284         0 - 1         1J           BS000284         0 - 1         1J           BS000284         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U	BS000272	2 - 3	
BS000274         2 - 3         0.079           BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000278         0 - 1         1.4           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000282         0 - 1         0.18           BS000282         1 - 2         0.074           BS000284         0 - 1         1J           BS000284         1 - 2         1.7J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U		0 - 1	0.15
BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000278         0 - 1         1.4           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000282         0 - 1         0.18           BS000282         1 - 2         0.074           BS000284         0 - 1         1J           BS000284         1 - 2         1.7J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U	BS000274		0.019U
BS000276         0 - 1         0.58           BS000276         1 - 2         0.019U           BS000276         2 - 3         0.019U           BS000278         0 - 1         1.4           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000282         0 - 1         0.18           BS000282         1 - 2         0.074           BS000284         0 - 1         1J           BS000284         1 - 2         1.7J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U		2 - 3	0.079
BS000276         2 - 3         0.019U           BS000278         0 - 1         1.4           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000282         0 - 1         0.18           BS000284         0 - 1         1J           BS000284         1 - 2         1.7J           BS000284         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U	BS000276	0 - 1	0.58
BS000278         0 - 1         1.4           BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000282         0 - 1         0.18           BS000282         1 - 2         0.074           BS000284         0 - 1         1J           BS000284         1 - 2         1.7J           BS000284         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U			0.019U
BS000278         1 - 2         0.1           BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000282         0 - 1         0.18           BS000284         0 - 1         1J           BS000284         1 - 2         1.7J           BS000284         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U	BS000276		
BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000282         0 - 1         0.18           BS000282         1 - 2         0.074           BS000284         0 - 1         1J           BS000284         1 - 2         1.7J           BS000284         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U			
BS000278         2 - 3         0.02           BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000282         0 - 1         0.18           BS000282         1 - 2         0.074           BS000284         0 - 1         1J           BS000284         1 - 2         1.7J           BS000284         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U	BS000278	1 - 2	0.1
BS000280         0 - 1         0.17           BS000280         1 - 2         0.019U           BS000280         2 - 3         0.019U           BS000282         0 - 1         0.18           BS000284         1 - 2         0.074           BS000284         1 - 2         1.7J           BS000284         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U		2 - 3	
BS000280         2 - 3         0.019U           BS000282         0 - 1         0.18           BS000282         1 - 2         0.074           BS000284         0 - 1         1J           BS000284         1 - 2         1.7J           BS000284         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U	BS000280	0 - 1	0.17
BS000282         0 - 1         0.18           BS000282         1 - 2         0.074           BS000284         0 - 1         1J           BS000284         1 - 2         1.7J           BS000284         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U	BS000280		0.019U
BS000282         1 - 2         0.074           BS000284         0 - 1         1J           BS000284         1 - 2         1.7J           BS000286         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U	BS000280		0.019U
BS000282         1 - 2         0.074           BS000284         0 - 1         1J           BS000284         1 - 2         1.7J           BS000286         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U	<u></u>	0 - 1	0.18
BS000284         0 - 1         1J           BS000284         1 - 2         1.7J           BS000284         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U	BS000282	1 - 2	0.074
BS000284         2 - 3         0.93J           BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U		0 - 1	1J
BS000286         0 - 1         0.27J           BS000286         1 - 2         0.18J           BS000286         2 - 3         0.049           BS000288         0 - 1         0.12           BS000288         1 - 2         0.019U	BS000284		1.7J
BS000286     1 - 2     0.18J       BS000286     2 - 3     0.049       BS000288     0 - 1     0.12       BS000288     1 - 2     0.019U	BS000284	2 - 3	0.93J
BS000286       1 - 2       0.18J         BS000286       2 - 3       0.049         BS000288       0 - 1       0.12         BS000288       1 - 2       0.019U	BS000286	0 - 1	0.27J
BS000286       2 - 3       0.049         BS000288       0 - 1       0.12         BS000288       1 - 2       0.019U	BS000286	1 - 2	0.18J
BS000288 1 - 2 0.019U	BS000286	2 - 3	0.049
	BS000288	0 - 1	0.12
B\$000288 2 - 3 0.019U	BS000288	1 - 2	0.019U
	B\$000288	2 - 3	0.019U

U - Non-detects

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

						77410	my se
Transect	T110	T114	T114	T114	T116	T116	T116
Location ID	RB021101	BS000233	BS000234	RB021143	BS000235	BS000235	BS000236
Date Collected	11/16/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002	04/01/2002
Depth (ft)	0.0-0.5	0.0-1.0	2.0-3.0	0.0-0.5	1.0-2.0	1.0-2.0	0.0-1.0
Exposure Area	West Riverbank						
Analyte		,					
APP IX SEMIVOLATILES							
1,2,4,5-TETRACHLOROBENZENE	.69 U	.7 UJ	.38 U	,46 U	.46 U	.43 U	.44 U
HEXACHLOROBENZENE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
PENTACHLOROBENZENE	,69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
1,2,4-TRICHLOROBENZENE	.081 J	.7 U	.38 U	.031 J	.46 U	.43 U	.44 U
1,2-DICHLOROBENZENE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 UJ
1,3,5-TRINITROBENZENE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
1,3-DICHLOROBENZENE	69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
1,3-DINITROBENZENE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
1,4-DICHLOROBENZENE	.062 J	.7 U	.38 U	.04 J	.46 U	.43 U	.44 U
1,4-NAPHTHOQUINONE	.69 U	.7 U	.38 U	.46 U	.061 J	.43 U	.44 U
1-NAPHTHYLAMINE	.69 U	.7 U	.38 UJ	.46 U	.46 UJ	.43 UJ	.44 UJ
2,3,4,6-TETRACHLOROPHENOL	.69 U	.7 U	.38 U	R	.46 U	.43 U	.44 U
2,4,5-TRICHLOROPHENOL	1.7 UJ	1.8 U	.96 U	R	1.2 U	1.1 U	1.1 U
2,4,6-TRICHLOROPHENOL	.69 UJ	.7 U	.38 U	R	.46 U	.43 U	.44 UJ
2,4-DICHLOROPHENOL	.69 U	.7 U	.38 U	R	.46 U	.43 U	.44 U
2,4-DIMETHYLPHENOL	.69 UJ	R	R	R	R	R	R
2,4-DINITROPHENOL	1.7 U	1.8 U	.96 U	R	1.2 U	1.1 U	1.1 U
2,4-DINITROTOLUENE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	,44 U
2,6-DICHLOROPHENOL	.69 U	.7 U	.38 U	R	.46 U	.43 U	.44 U
2,6-DINITROTOLUENE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
2-ACETYLAMINOFLUORENE	.69 U	.7 U	.38 U	.46 UJ	.46 U	.43 U	.44 U
2-CHLORONAPHTHALENE	.69 U	.7 UJ	.38 UJ	.46 U	.46 UJ	.43 UJ	.44 UJ
2-CHLOROPHENOL	.69 U	.7 UJ	.38 UJ	R	.46 U	.43 U	.44 UJ
2-METHYLNAPHTHALENE	.13 J	.7 UJ	.1 J	.46 UJ	.46 U	.43 U	.21 J
2-METHYLPHENOL (O-CRESOL)	.69 U	R	R	R R	.46 UJ	.43 UJ	R
2-NAPHTHYLAMINE	.69 U	.7 U	.38 UJ	.46 U	.46 UJ	.43 UJ	.44 UJ
2-NITROANILINE	1.7 U	1.8 U	.96 U	1.2 U	1.2 U	1.1 U	1.1 U
2-NITROPHENOL	.69 U	.7 U	.38 U	R	.46 U	.43 U	.44 U
2-PICOLINE (ALPHA-PICOLINE)	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
3,3'-DICHLOROBENZIDINE	.69 U	R	R	.46 UJ	.46 U	.43 U	R
3,3'-DIMETHYLBENZIDINE	.69 UJ	.7 U	.38 UJ	.46 U	.46 UJ	.43 UJ	.44 UJ
3-METHYLCHOLANTHRENE	.69 U	.7 UJ	.38 U	.46 U	.46 U	.43 U	.44 U
3-NITROANILINE	1.7 U	1.8 UJ	.96 UJ	1.2 U	1.2 U	1.1 U	R
4,6-DINITRO-2-METHYLPHENOL	1.7 U	1.8 U	.96 U	R	1.2 U	1.1 U	1.1 U
4-AMINOBIPHENYL	.69 U	.7 U	.38 UJ	.46 U	.46 UJ	.43 UJ	.44 UJ
4-BROMOPHENYL PHENYL ETHER	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
4-CHLORO-3-METHYLPHENOL	69 U	.7 UJ	.38 UJ	.400 R	.46 U	.43 U	.44 U
The state of the s	.00 0	.1 00	.00 00	T.	.40 0	.430	.44 0

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

	<b>-</b> 446	7444	T444	T -7444	T116	T116	T116
Transect	and the state of t	T114	T114	T114		BS000235	BS000236
Location ID		BS000233	BS000234	RB021143	BS000235	04/01/2002	04/01/2002
Date Collected		04/01/2002	04/01/2002 2.0-3.0	11/12/1998 0.0-0.5	04/01/2002 1.0-2.0	1.0-2.0	0.0-1.0
Depth (ft)		0.0-1.0					West Riverbank
Exposure Area	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	vvest Riverbank
Analyte	00.111			10.11	40.11	40.11	
4-CHLOROANILINE	.69 UJ	R	R	.46 U	.46 U	.43 U	R
4-CHLOROPHENYL PHENYL ETHER	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
4-METHYLPHENOL	.036 J	.06 J	.38 UJ	R	.46 U	.43 U	.44 UJ
4-NITROANILINE	1.7 U	1.8 UJ	.96 UJ	1.2 U	1.2 U	1.1 U	R
4-NITROPHENOL	1.7 U	1.8 U	.96 U	R	1.2 UJ	1.1 U	1.1 U
4-NITROQUINOLINE-1-OXIDE	R	R	R	R	R	R	R
5-NITRO-O-TOLUIDINE	69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
7,12-DIMETHYLBENZ(A)ANTHRACENE	.69 UJ	.7 UJ	.38 U	.46 U	.46 U	.43 U	.44 U
A,A-DIMETHYLPHENETHYLAMINE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
ACENAPHTHENE	.69 U	.7 U	.062 J	.038 J	.46 U	.43 U	.062 J
ACENAPTHYLENE	.52 J	.44 J	.42 J	.46 U	.025 J	.024 J	.16 J
ACETOPHENONE	.69 U	.049 J	.045 J	.46 U	.46 U	.43 U	.026 J
ANILINE	1.7 UJ	R	R	R	R	R	R
ANTHRACENE	.31 J	.094 J	.26 J	.079 J	.041 J	.034 J	.16 J
ARAMITE	.69 U	R	R	.46 U	R	R	R
AZOBENZENE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
BENZO(A)ANTHRACENE	1.8	.072 J	1.9 J	.5	.14 J	.15 J	.83
BENZO(A)PYRENE	2.4 J	.053 J	2 J	.55	.16 J	.15 J	.93
BENZO(B)FLUORANTHENE	2.5	.078 J	2.4	.55	.16 J	.18 J	1.4 J
BENZO(GHI)PERYLENE	2.3	.7 UJ	.85 J	.45 J	.22 J	.29 J	.49
BENZO(K)FLUORANTHENE	2 (2)	.087 J	.38 U	.53	.21 J	.25 J	1.2
BENZYL ALCOHOL	.69 <b>U</b>	.7 UJ	.38 U	R	.46 U	.43 U	.44 U
BIS(2-CHLOROETHOXY) METHANE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
BIS(2-CHLOROETHYL) ETHER	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
BIS(2-CHLOROISOPROPYL) ETHER	.69 U	.7 U	.38 U	,46 U	.46 U	.43 U	.44 U
BIS(2-ETHYLHEXYL) PHTHALATE	.69 U	.5 J	.052 J	.46 U	.031 J	.023 J	.029 J
BUTYLBENZYLPHTHALATE	.69 U	.083 J	.38 U	.46 U	.46 U	.43 U	.44 U
CHLOROBENZILATE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
CHRYSENE	2.5	.071 J	2.1 J	.66	.16 J	.17 J	.94
DIALLATE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
DIBENZO(A,H)ANTHRACENE	.74	.7 UJ	.72 J	.11 J	.043 J	.049 J	.18 J
DIBENZOFURAN	.077 J	.7 U	.072 J	.024 J	.46 U	.43 U	.059 J
DIETHYL PHTHALATE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
DIMETHYL PHTHALATE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
DI-N-BUTYL PHTHALATE	.69 U	.033 J	.38 U	.46 U	.46 U	.43 U	.44 U
DI-N-OCTYL PHTHALATE	.69 U	.7 UJ	.38 U	.46 U	.46 U	.43 U	.44 U
DINOSEB	69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
ETHYL METHANESULFONATE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

Transect	T110	T114	T114	T114	T116	T116	T116
Location ID	RB021101	BS000233	BS000234	RB021143	BS000235	BS000235	BS000236
Date Collected	11/16/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002	04/01/2002
Depth (ft)	0.0-0.5	0.0-1.0	2.0-3.0	0.0-0.5	1.0-2.0	1.0-2.0	0.0-1.0
Exposure Area		West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank
Analyte			· · · · · · · · · · · · · · · · · · ·				
FLUORANTHENE	3.2	.035 J	2.9 J	.97	.26 J	.25 J	1.5
FLUORENE	.10	.7 U	.1 J	.042 J	.46 U	.43 U	.088 J
HEXACHLOROBUTADIENE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
HEXACHLOROCYCLOPENTADIENE	.69 U	R	R	.46 U	.46 U	.43 U	R
HEXACHLOROETHANE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
HEXACHLOROPROPENE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
INDENO(1,2,3-C,D)PYRENE	1,7	.7 UJ	1.8 J	,46 J	.21 J	.27 J	.56
ISOPHORONE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
ISOSAFROLE	.69 U	.7 UJ	.38 U	.46 U	.46 U	.43 U	.44 U
METHAPYRILENE	.69 UJ	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
METHYL METHANESULFONATE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
NAPHTHALENE	.23 J	.7 U	.22 J	.035 J	.04 J	.055 J	.26 J
NITROBENZENE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
NITROSOMETHYLETHYLAMINE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
N-NITROSODIETHYLAMINE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
N-NITROSODIMETHYLAMINE	.69 U	.7 UJ	.38 UJ	.46 U	.46 U	.43 U	.44 U
N-NITROSO-DI-N-BUTYLAMINE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
N-NITROSO-DI-N-PROPYLAMINE	.69 U	.7 UJ	.38 UJ	.46 U	.46 U	.43 U	.44 U
N-NITROSODIPHENYLAMINE	.69 U	.7 UJ	.38 UJ	.46 U	.46 U	.43 U	.44 UJ
N-NITROSOMORPHOLINE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
N-NITROSOPIPERIDINE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
N-NITROSOPYRROLIDINE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
O-TOLUIDINE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
P-DIMETHYLAMINOAZOBENZENE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
PENTACHLOROETHANE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
PENTACHLORONITROBENZENE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
PENTACHLOROPHENOL	1.7 UJ	1.8 U	.96 U	R	1.2 U	1.1 U	R
PHENACETIN	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
PHENANTHRENE	1.6	.7 U	1.4 J	.57	.14 J	.14 J	.9
PHENOL	.19 J	.7 U	.38 U	R	.46 U	.43 U	.44 UJ
P-PHENYLENEDIAMINE	.69 UJ	.7 UJ	.38 UJ	.46 UJ	.46 UJ	.43 UJ	.44 UJ
PRONAMIDE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U
PYRENE	3.9	.063 J	2.7	1 J	.26 J	.23 J	1.4
PYRIDINE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	R
SAFROLE	.69 U	.7 U	.38 U	.46 U	.46 U	.43 U	.44 U

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

Transect	T116	T116	T118	T118	T118	T120	T120
Location ID	BS000236	RB021162	BS000237	BS000238	RB021183	BS000239	BS000240
Date Collected	04/01/2002	11/12/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002
Depth (ft)		0.0-0.5	2.0-3.0	1.0-2.0	1.0-1.5	0.0-1.0	2.0-3.0
Exposure Area	West Riverbank						
Analyte							
APP IX SEMIVOLATILES							
1.2.4.5-TETRACHLOROBENZENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
HEXACHLOROBENZENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
PENTACHLOROBENZENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
1,2,4-TRICHLOROBENZENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
1,2-DICHLOROBENZENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
1,3,5-TRINITROBENZENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
1,3-DICHLOROBENZENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
1,3-DINITROBENZENE	.46 U	.5 UJ	.42 U	.39 U	.53 U	.4 U	.38 U
1,4-DICHLOROBENZENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
1,4-NAPHTHOQUINONE	.079 J	.16 J	.42 U	.39 U	.53 U	.4 U	.38 U
1-NAPHTHYLAMINE	.46 UJ	.5 U	.42 UJ	.39 UJ	.53 U	.4 UJ	,38 UJ
2,3,4,6-TETRACHLOROPHENOL	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 UJ
2,4,5-TRICHLOROPHENOL	1.2 U	1.2 UJ	1.1 U	.99 U	1.3 UJ	1 U	.95 UJ
2,4,6-TRICHLOROPHENOL	.46 U	.5 UJ	.42 U	.39 U	53 UJ	.4 U	.38 UJ
2,4-DICHLOROPHENOL	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 UJ
2,4-DIMETHYLPHENOL	R	.5 U	R	R	.53 U	R	.38 UJ
2,4-DINITROPHENOL	1.2 U	1.2 U	1.1 U	.99 U	1.3 U	1 U	.95 UJ
2,4-DINITROTOLUENE	.46 U	.5 UJ	.42 U	.39 U	.53 U	.4 U	.38 U
2,6-DICHLOROPHENOL	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 UJ
2,6-DINITROTOLUENE	.46 U	.5 U	.42 U	.39 U	53 U	.4 U	.38 U
2-ACETYLAMINOFLUORENE	.46 U	.5 UJ	.42 U	.39 U	.53 UJ	.4 U	.38 U
2-CHLORONAPHTHALENE	.46 UJ	5 U	.42 UJ	.39 UJ	.53 U	.4 UJ	.38 UJ
2-CHLOROPHENOL	.46 U	.5 U	.42 UJ	.39 UJ	.53 U	.4 UJ	.38 UJ
2-METHYLNAPHTHALENE	.039 J	.033 J	.043 J	.39 U	.029 J	.2 J	.38 U
2-METHYLPHENOL (O-CRESOL)	.46 UJ	.5 U	R	R	,53 U	R	.38 UJ
2-NAPHTHYLAMINE	.46 UJ	.5 UJ 🗝	.42 UJ	.39 UJ	.53 U	.4 UJ	.38 UJ
2-NITROANILINE	1.2 U	1.2 U	1.1 U	.99 U	1,3 U	1 U	.95 U
2-NITROPHENOL	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 UJ
2-PICOLINE (ALPHA-PICOLINE)	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
3,3'-DICHLOROBENZIDINE	.46 U	.5 U	R	R	.53 U	R	.38 U
3,3'-DIMETHYLBENZIDINE	.46 UJ	.5 U	.42 UJ	.39 UJ	.53 UJ	.4 UJ	.38 UJ
3-METHYLCHOLANTHRENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
3-NITROANILINE	1.2 U	1.2 UJ	1.1 UJ	.99 UJ	1.3 U	1 UJ	.95 U
4,6-DINITRO-2-METHYLPHENOL	1.2 U	1.2 U	1.1 U	.99 U	1.3 U	1 U	.95 UJ
4-AMINOBIPHENYL	.46 UJ	.5 U	.42 UJ	.39 UJ	.53 U	.4 UJ	.38 UJ
4-BROMOPHENYL PHENYL ETHER	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
4-CHLORO-3-METHYLPHENOL	.46 U	.5 U	.42 UJ	.39 UJ	.53 U	.4 UJ	.38 UJ

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

Transect	T116	T116	T118	T118	T118	T120	T120
Location ID	BS000236	RB021162	BS000237	BS000238	RB021183	BS000239	BS000240
Date Collected	04/01/2002	11/12/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002
Depth (ft)		0.0-0.5	2.0-3.0	1.0-2.0	1.0-1.5	0.0-1.0	2.0-3.0
Exposure Area		West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank
Analyte	West Kiverbank	**CSC**(WC.)Carin	VVCSCTAVCIDAIN	TTCS(TATORDAIN			
4-CHLOROANILINE	.46 U	.5 U	R	R	.53 U	R	.38 U
4-CHLOROPHENYL PHENYL ETHER	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
4-METHYLPHENOL	.46 U	.5 U	.42 UJ	.39 UJ	.53 U	.4 UJ	.38 UJ
4-NITROANILINE	1.2 U	1.2 UJ	1.1 UJ	.99 UJ	1.3 U	1 UJ	.95 U
4-NITROPHENOL	1.2 U	1.2 U	1.1 U	.99 U	1.3 U	1 U	.95 UJ
4-NITROQUINOLINE-1-OXIDE	R	R	R	R	R	R	R
5-NITRO-O-TOLUIDINE	.46 U	.5 UJ	.42 U	.39 U	.53 U	.4 U	.38 U
7,12-DIMETHYLBENZ(A)ANTHRACENE	.46 U	.5 U	.42 U	.39 U	.53 UJ	.4 U	.38 U
A,A-DIMETHYLPHENETHYLAMINE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
ACENAPHTHENE	.029 J	.029 J	.42 U	.39 U	.37 J	.15 J	.38 U
ACENAPTHYLENE	.064 J	.026 J	.065 J	.39 U	.53 U	.42	.055 J
ACETOPHENONE	.026 J	.5 U	.42 U	.39 U	.53 U	.041 J	.38 U
ANILINE	R	R	R	R	R	R	.95 UJ
ANTHRACENE	.1 J	,12 J	.049 J	.39 U	.53 U	.79	.053 J
ARAMITE	R	.5 UJ	R	R	.53 U	R	R
AZOBENZENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
BENZO(A)ANTHRACENE	.66	.68	.24 J	.39 U	.046 J	4.7	.52
BENZO(A)PYRENE	.68	.79	.027 J	.39 U	.045 J	5.1 J	.53
BENZO(B)FLUORANTHENE	.91	.7	.24 J	.39 U	.53 U	5.2 J	.77
BENZO(GHI)PERYLENE	.38 J	.81 J	.42 U	.39 U	.033 J	1.8	.43
BENZO(K)FLUORANTHENE	1.1	.73	.2 J	.39 U	.53 U	.4 U	.72
BENZYL ALCOHOL	.46 U	.5 UJ	.42 U	.39 U	.53 U	.4 U	.38 UJ
BIS(2-CHLOROETHOXY) METHANE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
BIS(2-CHLOROETHYL) ETHER	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
BIS(2-CHLOROISOPROPYL) ETHER	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
BIS(2-ETHYLHEXYL) PHTHALATE	.056 J	.5 U	.42 U	.39 U	.53 U	.05 J	.02 J
BUTYLBENZYLPHTHALATE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
CHLOROBENZILATE	.46 U	.5 UJ	.42 U	.39 U	.53 U	.4 U	.38 U
CHRYSENE	.79	.78	.22 J	.39 U	.043 J	4.2	.69
DIALLATE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
DIBENZO(A,H)ANTHRACENE	.18 J	,2 J	.092 J	.39 U	.53 UJ	1.1	.16 J
DIBENZOFURAN	.048 J	.031 J	.42 U	.39 U	.037 J	.18 J	.38 U
DIETHYL PHTHALATE	.46 U	.5 UJ	.42 U	.39 U	.53 U	.4 U	.38 U
DIMETHYL PHTHALATE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
DI-N-BUTYL PHTHALATE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
DI-N-OCTYL PHTHALATE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
DINOSEB	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
ETHYL METHANESULFONATE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

	T146		<b>7446</b>	T446	T446	T120	T120
Transect	T116	T116	T118	T118	T118		
Location ID	BS000236	RB021162	BS000237	BS000238	RB021183	BS000239	BS000240
Date Collected		11/12/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002
Depth (ft)		0.0-0.5	2.0-3.0	1.0-2.0	1.0-1.5	0.0-1.0	2.0-3.0
Exposure Area	West Riverbank						
Analyte							
FLUORANTHENE	1.2	1.3	.34 J	.39 U	.063 J	5.4	1.1
FLUORENE	.034 J	.042 J	.42 U	.39 U	.47 J	.22 J	.022 J
HEXACHLOROBUTADIENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
HEXACHLOROCYCLOPENTADIENE	.46 U	.5 UJ	R	R	.53 UJ	R	.38 U
HEXACHLOROETHANE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
HEXACHLOROPROPENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
INDENO(1,2,3-C,D)PYRENE	.5	.73 J	.045 J	.39 U	.033 J	2.1	.47
ISOPHORONE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
ISOSAFROLE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
METHAPYRILENE	.46 U	.5 UJ	.42 U	.39 U	.53 UJ	.4 U	.38 U
METHYL METHANESULFONATE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
NAPHTHALENE	.14 J	.091 J	.095 J	.39 U	.34 J	.44	.069 J
NITROBENZENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
NITROSOMETHYLETHYLAMINE	.46 U	.5 U	.42 U	.39 UJ	.53 U	.4 U	.38 U
N-NITROSODIETHYLAMINE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
N-NITROSODIMETHYLAMINE	.46 U	.5 U	.42 UJ	.39 U	.53 U	.4 UJ	.38 U
N-NITROSO-DI-N-BUTYLAMINE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
N-NITROSO-DI-N-PROPYLAMINE	.46 U	.5 <b>U</b>	.42 UJ	.39 UJ	.53 U	.4 UJ	.38 U
N-NITROSODIPHENYLAMINE	.46 U	.5 U	.42 UJ	.39 UJ	.53 U	.4 UJ	.38 U
N-NITROSOMORPHOLINE	.46 U	.5 U	.42 U	.39 U	53 U	.4 U	.38 U
N-NITROSOPIPERIDINE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
N-NITROSOPYRROLIDINE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
O-TOLUIDINE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
P-DIMETHYLAMINOAZOBENZENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
PENTACHLOROETHANE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
PENTACHLORONITROBENZENE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
PENTACHLOROPHENOL	1.2 U	1.2 UJ	1.1 U	.99 U	1.3 UJ	1 U	.95 UJ
PHENACETIN	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
PHENANTHRENE	.56	.52	.22 J	.39 U	.045 J	3	.41
PHENOL	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 UJ
P-PHENYLENEDIAMINE	.46 UJ	.5 UJ	.42 UJ	.39 UJ	.53 UJ	.4 UJ	.38 UJ
PRONAMIDE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	.38 U
PYRENE	1	1.2 J	.1 J	.39 U	.075 J	8.3 J	.30 U
PYRIDINE	.46 U	.5 U	.1 J	.39 U	.075 J	.4 U	.9 .38 U
SAFROLE	.46 U	.5 U	.42 U	.39 U	.53 U	.4 U	
OR NOLL	.40 U	U C.	.42 U	.39 U	.53 U	,4 U	.38 U

U - Non-detects UJ - Non-detects at estimated detection limits U - Detect at estimated value R - Rejected value Highlighted are results located within PCB remediation areas

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

Transect	T120	T122	T122	T122	T122	T124	T124
Location ID		BS000241	BS000242	RB021221	RB021222	BS000243	BS000244
Date Collected		04/01/2002	04/01/2002	11/12/1998	06/13/2000	04/01/2002	04/01/2002
Depth (ft)		1.0-2.0	0.0-1.0	0.0-0.5	4.0-4.5	2.0-3.0	1.0-2.0
Exposure Area		West Riverbank					
Analyte							
APP IX SEMIVOLATILES							
1,2,4,5-TETRACHLOROBENZENE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
HEXACHLOROBENZENE	3.5 U	.41 U	,42 U	1.5 U	.38 U	.36 U	.4 U
PENTACHLOROBENZENE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	,4 U
1,2,4-TRICHLOROBENZENE	3.5 U	.41 U	.067 J	1.5 U	.38 U	.36 U	.4 U
1,2-DICHLOROBENZENE	3.5 U	.41 U	.42 U	1.5 U	.38 UJ	.36 U	.4 U
1,3,5-TRINITROBENZENE	3.5 U	.41 U	.42 U	1.5 U	.38 UJ	.36 U	.4 U
1,3-DICHLOROBENZENE	3.5 U	.41 U	.42 U	1.5 U	.38 UJ	.36 U	.4 U
1,3-DINITROBENZENE	3.5 U	.41 U	.42 U	1.5 U	.38 UJ	.36 U	.4 U
1,4-DICHLOROBENZENE	3.5 U	.41 U	.045 J	1.5 U	.38 UJ	.36 U	.4 U
1,4-NAPHTHOQUINONE	3,5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
1-NAPHTHYLAMINE	3.5 U	.41 UJ	.42 UJ	1.5 U	.38 U	.36 U	.4 UJ
2,3,4,6-TETRACHLOROPHENOL	3.5 U	.41 U	.42 U	1.5 U	.38 UJ	.36 U	1.6 UJ
2,4,5-TRICHLOROPHENOL	8.8 UJ	1 U	1.1 U	3.8 U	.95 U	.9 U	4 UJ
2,4,6-TRICHLOROPHENOL	3.5 UJ	.41 U	.42 U	1.5 U	.38 U	.36 U	1.6 UJ
2,4-DICHLOROPHENOL	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	1.6 UJ
2,4-DIMETHYLPHENOL	3.5 U	R	R	1.5 U	.38 U	R	1.6 UJ
2,4-DINITROPHENOL	8.8 U	1 U	1.1 U	3.8 U	.95 UJ	.9 U	4 UJ
2,4-DINITROTOLUENE	3.5 U	.41 U	.42 U	4 1.5 U	.38 UJ	.36 U	.4 U
2,6-DICHLOROPHENOL	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	1.6 UJ
2,6-DINITROTOLUENE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
2-ACETYLAMINOFLUORENE	3.5 UJ	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
2-CHLORONAPHTHALENE	3,5 U	.41 UJ	.42 UJ	1.5 U	.38 U	.36 UJ	.4 UJ
2-CHLOROPHENOL	3.5 U	.41 UJ	.42 UJ	1.5 U	.38 U	.36 UJ	1.6 UJ
2-METHYLNAPHTHALENE	.72 J	.045 J	.23 J	.11 J	.073 J	.066 J	1.6 UJ
2-METHYLPHENOL (O-CRESOL)	3.5 U	R	R	1.5 U	.38 U	R	1.6 UJ
2-NAPHTHYLAMINE	3.5 U	.41 UJ	.42 UJ	1.5 U	.38 U	.36 U	.4 UJ
2-NITROANILINE	8.8 U	1 U	1.1 U	3.8 U	.95 U	.9 U	1 U
2-NITROPHENOL	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	1.6 UJ
2-PICOLINE (ALPHA-PICOLINE)	3.5 U	.41 U	.42 U	1,5 U	.38 U	.36 U	.4 U
3,3'-DICHLOROBENZIDINE	3.5 UJ	R	R	1.5 U	.38 U	R	1,6 UJ
3,3'-DIMETHYLBENZIDINE	3.5 U	.41 UJ	.42 UJ	1.5 U	.38 U	.36 U	.4 UJ
3-METHYLCHOLANTHRENE	3.5 U	.41 UJ	.42 UJ	1.5 U	.38 U	.36 UJ	.4 U
3-NITROANILINE	8.8 U	1 UJ	1.1 UJ	3.8 U	.95 U	.9 UJ	1 UJ
4,6-DINITRO-2-METHYLPHENOL	8.8 U	1 U	1:1 U	3.8 U	.95 U	.9 U	4 UJ
4-AMINOBIPHENYL	3.5 U	.41 UJ	.42 UJ	1.5 U	.38 UJ	.36 U	.4 UJ
4-BROMOPHENYL PHENYL ETHER	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
4-CHLORO-3-METHYLPHENOL	3.5 U	.41 UJ	.42 UJ	1.5 U	.38 U	.36 UJ	1.6 UJ

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

Transect	·	T122	T122	T122	T122	T124	T124
Location ID	RB021202	BS000241	BS000242	RB021221	RB021222	BS000243	BS000244
Date Collected	11/12/1998	04/01/2002	04/01/2002	11/12/1998	06/13/2000	04/01/2002	04/01/2002
Depth (ft)		1.0-2.0	0.0-1.0	0,0-0.5	4.0-4.5	2.0-3.0	1.0-2.0
Exposure Area		West Riverbank					
Analyte							
4-CHLOROANILINE	3.5 U	R	R	1.5 U	.38 U	R	1.6 UJ
4-CHLOROPHENYL PHENYL ETHER	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
4-METHYLPHENOL	.21 J	.41 UJ	.087 J	1.5 U	.38 U	.36 UJ	1.6 UJ
4-NITROANILINE	8.8 U	1 UJ	1.1 UJ	3.8 U	.95 UJ	.9 UJ	1 UJ
4-NITROPHENOL	8.8 UJ	1 U	1.1 U	3.8 U	.95 U	.9 U	4 UJ
4-NITROQUINOLINE-1-OXIDE	R	R	R	1.5 U	.38 U	R	R
5-NITRO-O-TOLUIDINE	3.5 U	.41 U	.42 U	1.5 U	.38 UJ	.36 U	.4 U
7,12-DIMETHYLBENZ(A)ANTHRACENE	3.5 U	.41 UJ	.42 UJ	1.5 U	.38 U	.36 UJ	.4 U
A,A-DIMETHYLPHENETHYLAMINE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	,4 U
ACENAPHTHENE	5 444	.041 J	.18 J	.098 J	.068 J	.1 J	.32 J
ACENAPTHYLENE	3.5 U	.18 J	1.5	.16 J	.043 J	.26 J	.35 J
ACETOPHENONE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.028 J	1.6 UJ
ANILINE	R R	R	R	3.8 U	R	R	4 UJ
ANTHRACENE	5.6	.23 J	1.4	.52 J	.42 J	.77	1.2 J
ARAMITE	3.5 U	R	R	1.5 U	.38 U	R	R
AZOBENZENE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
BENZO(A)ANTHRACENE	6.3	1.2	.42 U	3.7 J	.92	3.7	5.1 J
BENZO(A)PYRENE	4.5	1.4 J	9.7 J	4.4 J	.7 J	4.2 J	7 J
BENZO(B)FLUORANTHENE	2.8 J	2.4 J	10 J	3.5 J	.51	6.3 J	6.3 J
BENZO(GHI)PERYLENE	2.1 J	2.1 J	2.9 J	4.2 J	.33 J	2.2 J	1.6 J
BENZO(K)FLUORANTHENE	4.4	1.2 J	.42 UJ	3.9	.87	.36 UJ	7.3 J
BENZYL ALCOHOL	3.5 UJ	.41 U	.42 U	1.5 U	.38 U	.36 U	1.6 UJ
BIS(2-CHLOROETHOXY) METHANE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
BIS(2-CHLOROETHYL) ETHER	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
BIS(2-CHLOROISOPROPYL) ETHER	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
BIS(2-ETHYLHEXYL) PHTHALATE	3.5 U	.052 J	.2 J	4.6 U	.38 U	.026 J	1.6 UJ
BUTYLBENZYLPHTHALATE	3.5 U	.41 U	.063 J	.1 J	.38 U	.36 U	.4 UJ
CHLOROBENZILATE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
CHRYSENE	5.6	1.4	.42 U	4.4 J	.81	2.9	4.4 J
DIALLATE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	,4 U
DIBENZO(A,H)ANTHRACENE	.83 J	.83 J	1.9 J	1.3 J	.14 J	1.1 J	.67 J
DIBENZOFURAN	4.6	.052 J	.22 J	.091 J	.1 J	.1 J	.19 J
DIETHYL PHTHALATE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.1 J
DIMETHYL PHTHALATE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
DI-N-BUTYL PHTHALATE	3.5 U	.41 U	.039 J	4.6 UJ	.38 U	.36 U	1.6 UJ
DI-N-OCTYL PHTHALATE	3.5 U	.41 UJ	.42 UJ	1.5 U	.38 U	.36 UJ	.4 U
DINOSEB	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
ETHYL METHANESULFONATE	3.5 U	1.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

Transect		T122	T122	T122	T122	T124	T124
Location ID	RB021202	BS000241	BS000242	RB021221	RB021222	BS000243	BS000244
Date Collected	11/12/1998	04/01/2002	04/01/2002	11/12/1998	06/13/2000	04/01/2002	04/01/2002
Depth (ft)		1.0-2.0	0.0-1.0	0.0-0.5	4.0-4.5	2.0-3.0	1.0-2.0
Exposure Area	West Riverbank						
Analyte							
FLUORANTHENE	10	1.8	14	7.5	1.4	5.3	4.8 J
FLUORENE	7.6	.41 U	.5	.14 J	.17 J	.2 J	.32 J
HEXACHLOROBUTADIENE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
HEXACHLOROCYCLOPENTADIENE	3.5 U	R	R	1.5 U	.38 UJ	R	1.6 UJ
HEXACHLOROETHANE	3.5 U	.41 U	.42 U	1.5 U	.38 U	,36 U	.4 U
HEXACHLOROPROPENE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	,4 U
INDENO(1,2,3-C,D)PYRENE	2.6 J	1.8 J	3.6 J	3.7 J	.35 J	2.2 J	2 J
ISOPHORONE	3,5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 ∪
ISOSAFROLE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
METHAPYRILENE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
METHYL METHANESULFONATE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 ∪
NAPHTHALENE	.9 J	.12 J	.59	.3J	.22 J	.18 J	.32 J
NITROBENZENE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
NITROSOMETHYLETHYLAMINE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
N-NITROSODIETHYLAMINE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
N-NITROSODIMETHYLAMINE	3.5 U	.41 UJ	.42 UJ	1.5 U	.38 U	.36 UJ	.4 UJ
N-NITROSO-DI-N-BUTYLAMINE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
N-NITROSO-DI-N-PROPYLAMINE	3.5 U	.41 UJ	.42 D3	1,5 U	.38 U	.36 UJ	.4 UJ
N-NITROSODIPHENYLAMINE	3.5 U	.41 UJ	.42 UJ	1.5 U	.38 U	.36 UJ	.4 UJ
N-NITROSOMORPHOLINE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
N-NITROSOPIPERIDINE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
N-NITROSOPYRROLIDINE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
O-TOLUIDINE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
P-DIMETHYLAMINOAZOBENZENE	3.5 U	.41 U	42 U	1.5 U	.38 U	.36 U	.4 U
PENTACHLOROETHANE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
PENTACHLORONITROBENZENE	3.5 U	.41 U	42 U	1.5 U	.38 U	.36 U	.4 U
PENTACHLOROPHENOL	8.8 UJ	1 U	1.1 U	3.8 U	R	.9 U	4 UJ
PHENACETIN	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
PHENANTHRENE	19	1	8.1	2.6 J	.79	1.9	2.7 J
PHENOL	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	1.6 UJ
P-PHENYLENEDIAMINE	3.5 UJ	.41 UJ	.42 UJ	1.5 U	.38 U	.36 UJ	.4 UJ
PRONAMIDE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
PYRENE	9.5 J	2.8	26 J	9.6	1.3	5.2	6.6 J
PYRIDINE	3.5 U	.41 U	.42 U	1.5 U	.38 U	.36 U	.4 U
SAFROLE	3,5 U	.41 U	,42 U	1.5 U	.38 U	.36 U	.4 U

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

			itea in pair per		T400	T128	T130
Transect	T126	T126	T126	T128	T128	RB021282	RB021301
Location ID	BS000245	BS000246	RB021263	BS000247	BS000248	11/11/1998	11/10/1998
Date Collected		04/01/2002	11/11/1998	04/01/2002	04/01/2002	1.0-1.5	0.0-0.5
Depth (ft)		2.0-3.0	1.0-1.5	1.0-2.0	0.0-1.0		
Exposure Area	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank
Analyte							
APP IX SEMIVOLATILES							10.11
1,2,4,5-TETRACHLOROBENZENE	.45 U	.39 U	4.9 U	.43 U	.46 U	,39 U	.43 U
HEXACHLOROBENZENE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U
PENTACHLOROBENZENE	.45 UJ	.39 U	4,9 U	.43 U	.46 U	,39 U	.43 U
1,2,4-TRICHLOROBENZENE	.45 UJ	.39 U	2.2 J	.43 U	.46 U	.39 UJ	,43 UJ
1,2-DICHLOROBENZENE	.45 UJ	.39 U	4,9 UJ	.43 U	.46 U	,39 UJ	.43 UJ
1,3,5-TRINITROBENZENE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	,43 U
1,3-DICHLOROBENZENE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U
1,3-DINITROBENZENE	.45 UJ	.39 U	4.9 U	.43 U	46 U	.39 U	.43 U
1,4-DICHLOROBENZENE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	43 U
1,4-NAPHTHOQUINONE	.45 UJ	.39 U	4.9 U	.43 U	46 U	39 U	.43 U
1-NAPHTHYLAMINE	.45 UJ	.39 UJ	4.9 U	.43 UJ	.46 UJ	.39 U	.43 U
2,3,4,6-TETRACHLOROPHENOL	.45 UJ	.39 UJ	4.9 U	R	R	R	.43 U
2,4,5-TRICHLOROPHENOL	1.1 UJ	.99 UJ	12 UJ	R	R	R	1.1 U
2,4,6-TRICHLOROPHENOL	.45 UJ	.39 UJ	4.9 UJ	R	R	R	.43 U
2,4-DICHLOROPHENOL	.45 UJ	.39 UJ	4.9 UJ	R	R	R	.43 U
2,4-DIMETHYLPHENOL	.45 UJ	.39 UJ	4.9 UJ	4.3 UJ	R	R	.43 U
2,4-DINITROPHENOL	1.1 UJ	.99 UJ	12 U	R	R	R	1,1 U
2,4-DINITROTOLUENE	.45 UJ	.39 U	4.9 UJ	.43 U	.46 U	. 39 UJ	43 UJ
2,6-DICHLOROPHENOL	.45 UJ	.39 UJ	4.9 U	R	Recognition	* R	.43 U
2,6-DINITROTOLUENE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	,39 U	.43 U
2-ACETYLAMINOFLUORENE	.45 UJ	.39 UJ	4.9 U	.43 UJ	.46 UJ	.39 U	43 U
2-CHLORONAPHTHALENE	.45 UJ	.39 UJ	4.9 UJ	.43 UJ	.46 UJ	.39 UJ	.43 UJ
2-CHLOROPHENOL	.45 UJ	.39 UJ	4.9 U	R	R	R	.43 U
2-METHYLNAPHTHALENE	.45 UJ	.39 U	1.3 J	.47	17 J	.39 UJ	L880.
2-METHYLPHENOL (O-CRESOL)	.45 UJ	.39 UJ	4.9 U	4.3 UJ	3.4 UJ	R	.43 U
2-NAPHTHYLAMINE	.45 UJ	.39 UJ	4.9 U	.43 UJ	.46 UJ	.39 U	.43 U
2-NITROANILINE	1.1 UJ	.99 U	12 U	1.1 U	1.2 U	.98 U	1.1 U
2-NITROPHENOL	.45 UJ	.39 UJ	4.9 U	R	R	R	.43 U
2-PICOLINE (ALPHA-PICOLINE)	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U
3,3'-DICHLOROBENZIDINE	.45 UJ	.39 UJ	4.9 U	4.3 UJ	3.1 UJ	.39 U	.43 U
3.3'-DIMETHYLBENZIDINE	.45 UJ	.39 UJ	4.9 U	.43 UJ	.46 UJ	.39 U	.43 U
3-METHYLCHOLANTHRENE	.45 UJ	.39 UJ	4.9 U	.43 UJ	.46 UJ	.39 U	.43 UJ
3-NITROANILINE	1.1 UJ	.99 UJ	12 U	1.1 UJ	1.2 UJ	.98 U	1.1 U
4,6-DINITRO-2-METHYLPHENOL	1.1 UJ	.99 UJ	12 U	R	R	R	1.1 U
4-AMINOBIPHENYL	.45 UJ	.39 UJ	4.9 U	.43 UJ	.46 UJ	.39 U	.43 U
4-BROMOPHENYL PHENYL ETHER	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U
4-CHLORO-3-METHYLPHENOL	.45 UJ	.39 UJ	4.9 U	R	R	R	.43 U
LACTIFOLO. O. MICHIEL HELICAN	1 .40 00		4.00	4	• •	•	

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

(Results are presented in part per million, ppm)										
Transect		T126	T126	T128	T128	T128	T130			
Location ID	BS000245	BS000246	RB021263	BS000247	BS000248	RB021282	RB021301			
Date Collected	04/01/2002	04/01/2002	11/11/1998	04/01/2002	04/01/2002	11/11/1998	11/10/1998			
Depth (ft)		2.0-3.0	1,0-1,5	1.0-2.0	0.0-1.0	1.0-1.5	0.0-0.5			
Exposure Area	West Riverbank									
Analyte										
4-CHLOROANILINE	.45 UJ	.39 UJ	16 U	4.3 UJ	3.1 UJ	R	.43 U			
4-CHLOROPHENYL PHENYL ETHER	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
4-METHYLPHENOL	.45 UJ	.39 UJ	.38 J	.23 J	R	R	.43 U			
4-NITROANILINE	1.1 UJ	.99 UJ	12 UJ	1.1 UJ	1.2 UJ	- 98 UJ	1,1 UJ			
4-NITROPHENOL	1.1 UJ	.99 U	12 UJ	R	R	R	1.1 U			
4-NITROQUINOLINE-1-OXIDE	R	R	16 U	R	R	R	.43 U			
5-NITRO-O-TOLUIDINE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
7,12-DIMETHYLBENZ(A)ANTHRACENE	.45 UJ	.39 UJ	4.9 U	.43 UJ	.46 UJ	.39 U	.43 UJ			
A,A-DIMETHYLPHENETHYLAMINE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
ACENAPHTHENE	.04 J	.39 U	12 J	.89	.34 J	.04 J	.062 J			
ACENAPTHYLENE	.087 J	.037 J	8.7 J	1.3	.64	.026 J	.031 J			
ACETOPHENONE	.45 UJ	.39 U	4.9 U	.041 J	.066 J	,39 U	.43 U			
ANILINE	1.1 UJ	.99 UJ	41 U	11 UJ	7.8 UJ	R	1.1 U			
ANTHRACENE	.17 J	.061 J	32 J	3.4	1.5	.18 J	.17 J			
ARAMITE	R	R	4.9 U	R	R	.39 U	.43 U			
AZOBENZENE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
BENZO(A)ANTHRACENE	.89 J	.21 J	31	12	7.8	.63	1.2			
BENZO(A)PYRENE	1.2 J	.96 J	21 J	12	9.1 J	.49 J	1.5 J			
BENZO(B)FLUORANTHENE	1.6 J	.72 J	13	16 J	14 J	.33 J	1.2 J			
BENZO(GHI)PERYLENE	.45 J	3.1 J	10	2.5 J	3.6 J	.25 J	1.7 J			
BENZO(K)FLUORANTHENE	1.8 J	.59 J	18	.43 UJ	.46 UJ	.54	1.3 J			
BENZYL ALCOHOL	.45 UJ	.39 UJ	4.9 UJ	R	R	R	.43 U			
BIS(2-CHLOROETHOXY) METHANE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
BIS(2-CHLOROETHYL) ETHER	.45 UJ	.39 U	4.9 U	.43 U	,46 U	,39 U	.43 U			
BIS(2-CHLOROISOPROPYL) ETHER	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
BIS(2-ETHYLHEXYL) PHTHALATE	.45 UJ	.39 UJ	4.9 U	1.8 J	.45 J	.39 U	.43 J			
BUTYLBENZYLPHTHALATE	.45 UJ	.39 UJ	4.9 U	.43 UJ	.099 J	,39 U	.06 J			
CHLOROBENZILATE	.45 UJ	.39 UJ	4.9 U	.43 UJ	.46 UJ	.39 U	.43 U			
CHRYSENE	.91 J	.28 J	25 J	11	7.2	.57 J	1.3 J			
DIALLATE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
DIBENZO(A,H)ANTHRACENE	.12 J	1.6 J	4.2 J	1.9 J	2 J	.086 J	.35 J			
DIBENZOFURAN	.036 J	.39 U	20 J	1.3	.26 J	.03 J	.036 J			
DIETHYL PHTHALATE	.16 J	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
DIMETHYL PHTHALATE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	43 U			
DI-N-BUTYL PHTHALATE	.45 UJ	.39 U	4.9 U	.05 J	.068 J	39 U	.43.U			
DI-N-OCTYL PHTHALATE	.45 UJ	.39 UJ	4.9 U	.43 UJ	.46 UJ	.39 U	.43 U			
DINOSEB	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
ETHYL METHANESULFONATE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

(results are presented in part per limited, ppm)										
Transect	T126	T126	T126	T128	T128	T128	T130			
Location ID	BS000245	BS000246	RB021263	BS000247	BS000248	RB021282	RB021301			
Date Collected	04/01/2002	04/01/2002	11/11/1998	04/01/2002	04/01/2002	11/11/1998	11/10/1998			
Depth (ft)	0.0-1.0	2.0-3.0	1.0-1.5	1.0-2.0	0.0-1.0	1.0-1.5	0.0-0.5			
Exposure Area	West Riverbank									
Analyte										
FLUORANTHENE	1.4 J	.26 J	53 J	23	10	1 J	2,2 J			
FLUORENE	.043 J	.39 U	25	2	.45 J	.048 J	.073 J			
HEXACHLOROBUTADIENE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
HEXACHLOROCYCLOPENTADIENE	.45 UJ	.39 UJ	4.9 U	4.3 UJ	3.1 UJ	.39 U	.43 U			
HEXACHLOROETHANE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	,39 U	.43 U			
HEXACHLOROPROPENE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	43 U			
INDENO(1,2,3-C,D)PYRENE	.52 J	3.1 J	12	3.2 J	4.2 J	.28 J	1.6 J			
ISOPHORONE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
ISOSAFROLE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	,43 U			
METHAPYRILENE	.45 UJ	.39 U	4,9 U	.43 U	.46 U	.39 UJ	.43 U			
METHYL METHANESULFONATE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
NAPHTHALENE	.096 J	.026 J	4.6 J	1.4	.57	.059 J	-,1 U			
NITROBENZENE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
NITROSOMETHYLETHYLAMINE	.45 UJ	.39 U	4.9 U	.43 U	,46 U	,39 U	.43 U			
N-NITROSODIETHYLAMINE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
N-NITROSODIMETHYLAMINE	.45 UJ	.39 UJ	4.9 U	.43 UJ	.46 UJ	.39 U	.43 U			
N-NITROSO-DI-N-BUTYLAMINE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
N-NITROSO-DI-N-PROPYLAMINE	.45 UJ	.39 UJ	4.9 U	.43 UJ	.46 UJ	.39 U	.43 U			
N-NITROSODIPHENYLAMINE	.45 UJ	.39 UJ	4.9 U	.43 UJ	.46 UJ	.39 U	.43 U			
N-NITROSOMORPHOLINE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
N-NITROSOPIPERIDINE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
N-NITROSOPYRROLIDINE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
O-TOLUIDINE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
P-DIMETHYLAMINOAZOBENZENE	.45 UJ	.39 UJ	4.9 U	.43 UJ	.46 UJ	.39 U	.43 U			
PENTACHLOROETHANE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
PENTACHLORONITROBENZENE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	43 U			
PENTACHLOROPHENOL	1.1 UJ	.99 UJ	12 U	R	Program R	R	1.1 U			
PHENACETIN	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
PHENANTHRENE	.64 J	.13 J	84 J	18	5.3	.38 J	.71 J			
PHENOL	.45 UJ	.39 UJ	4.9 U	R	R	R	.43 U			
P-PHENYLENEDIAMINE	.45 UJ	.39 UJ	4.9 UJ	.43 UJ	.46 UJ	.39 UJ	.43 UJ			
PRONAMIDE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
PYRENE	1.8 J	.47 J	59 J	25	15	.92	3.2 J			
PYRIDINE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	.39 U	.43 U			
SAFROLE	.45 UJ	.39 U	4.9 U	.43 U	.46 U	39 U	.43 U			

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

F				
Transect	T110	T110	T110	T116
Location ID	BS000253	BS000254	RB021105	RB021164
Date Collected	04/02/2002	04/02/2002	11/10/1998	11/10/1998
Depth (ft)	0.0-1.0	0.0-1.0	1.0-1.5	0.0-0.5
Exposure Area	East Riverbank	East Riverbank	East Riverbank	East Riverbank
Analyte				
APP IX SEMIVOLATILES				
1,2,4,5-TETRACHLOROBENZENE	.39 U	.38 U	3.9 U	.4 U
HEXACHLOROBENZENE	.39 U	.38 U	3.9 U	4.4 U
PENTACHLOROBENZENE	.39 U	.38 U	3.9 U	.02 J
1,2,4-TRICHLOROBENZENE	.39 U	.38 U	3.9 UJ	.026 J
1,2-DICHLOROBENZENE	.39 U	.38 U	3.9 UJ	.4 UJ
1,3,5-TRINITROBENZENE	.39 U	.38 U	3.9 U	4 U
1,3-DICHLOROBENZENE	.39 U	.38 U	3.9 U	#84 4 U
1,3-DINITROBENZENE	.39 U	.38 U	3.9 U	4.4 U
1,4-DICHLOROBENZENE	.39 U	.38 U	3.9 U	,4 U
1,4-NAPHTHOQUINONE	.39 U	.38 U	3.9 U	.4 U
1-NAPHTHYLAMINE	.39 UJ	38 UJ	3.9 U	.4 U
2,3,4,6-TETRACHLOROPHENOL	.39 U	R	3.9 U	R
2,4,5-TRICHLOROPHENOL	.98 U	R	9.9 UJ	R
2,4,6-TRICHLOROPHENOL	.39 U	R	3.9 UJ	R
2,4-DICHLOROPHENOL	.39 U	R	3.9 UJ	R
2,4-DIMETHYLPHENOL	R	3.8 UJ	3.9 UJ	R
2,4-DINITROPHENOL	.98 U	R	9.9 U	R
2,4-DINITROTOLUENE	.39 U	.38 U	3.9 UJ	.4 UJ
2,6-DICHLOROPHENOL	.39 U	a R	3.9 U	Residence Residence
2,6-DINITROTOLUENE	.39 U	.38 U	3.9 U	, <b>4</b> U
2-ACETYLAMINOFLUORENE	.39 U	.38 U	3.9 U	4 U
2-CHLORONAPHTHALENE	.39 UJ	.38 UJ	3.9 UJ	.4 UJ
2-CHLOROPHENOL	.39 UJ	R	3.9 U	R
2-METHYLNAPHTHALENE	.39 U	.054 J	3.9 UJ	.4 U
2-METHYLPHENOL (O-CRESOL)	R	3.8 UJ	3.9 U	A R
2-NAPHTHYLAMINE	.39 UJ	.38 UJ	3.9 U	.4 U
2-NITROANILINE	.98 U	.97 U	9.9 U	1 U
2-NITROPHENOL	.39 U	R	3.9 U	R
2-PICOLINE (ALPHA-PICOLINE)	.39 U	- 38 U	3.9 U	.4 U
3,3'-DICHLOROBENZIDINE	R	3.8 UJ	3.9 U	.4 U
3,3'-DIMETHYLBENZIDINE	.39 UJ	.38 UJ	3.9 U	.4 U
3-METHYLCHOLANTHRENE	.39 U	.38 U	3.9 U	.4 U
3-NITROANILINE	.98 UJ	.97 UJ	9.9 U	10
4,6-DINITRO-2-METHYLPHENOL	.98 U	REMARK	9.9 U	R
4-AMINOBIPHENYL	.39 UJ	.38 UJ	3.9 U	.4 U
4-BROMOPHENYL PHENYL ETHER	.39 U	.38 U	3.9 U	7 Mari, 4 U
4-CHLORO-3-METHYLPHENOL	.39 UJ	Research	3.9 U	R.

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

•	-			
Transect	T110	T110	T110	T116
Location ID	BS000253	BS000254	RB021105	RB021164
Date Collected	04/02/2002	04/02/2002	11/10/1998	11/10/1998
Depth (ft)	0.0-1.0	0.0-1.0	1.0-1.5	0.0-0.5
Exposure Area	East Riverbank	East Riverbank	East Riverbank	East Riverbank
Analyte				
4-CHLOROANILINE	R	3.8 UJ	R	.4 UJ
4-CHLOROPHENYL PHENYL ETHER	.39 U	.38 U	3.9 U	.4 U
4-METHYLPHENOL	.39 UJ	R	3.9 U	R
4-NITROANILINE	.98 UJ	.97 UJ	9.9 UJ	1 UJ
4-NITROPHENOL	.98 UJ	R	9.9 UJ	R SEPRE
4-NITROQUINOLINE-1-OXIDE	R	R	R	R
5-NITRO-O-TOLUIDINE	.39 U	.38 U	3.9 U	.4 U
7,12-DIMETHYLBENZ(A)ANTHRACENE	.39 U	.38 U	3.9 U	.4 U
A,A-DIMETHYLPHENETHYLAMINE	.39 U	.38 U	3.9 U	.4 U
ACENAPHTHENE	.02 J	.18 J	2.9 J	.4 UJ
ACENAPTHYLENE	.034 J	.065 J	3.9 UJ	.4 UJ
ACETOPHENONE	.39 U	.019 J	3.9 U	.4 U
ANILINE	R	9.6 UJ	R	R
ANTHRACENE	.05 J	.24 J	6.2 J	.033 J
ARAMITE	R	R	3.9 U	,4 U
AZOBENZENE	.39 U	.38 U	3.9 U	.4 U
BENZO(A)ANTHRACENE	.21 J	1.1	13	.22 J
BENZO(A)PYRENE	.2 J	.86	18 J	.27 J
BENZO(B)FLUORANTHENE	.29 J	1.6	7.5	.23 J
BENZO(GHI)PERYLENE	.12 J	.4	12	.3 J
BENZO(K)FLUORANTHENE	.31 J	1.4	9.9	.28 J
BENZYL ALCOHOL	.39 U	R	3,9 UJ	R R
BIS(2-CHLOROETHOXY) METHANE	.39 U	.38 U	3.9 U	.4 U
BIS(2-CHLOROETHYL) ETHER	.39 U	.38 U	3.9 U	.4 U
BIS(2-CHLOROISOPROPYL) ETHER	.39 U	.38 U	3.9 U	.4 U
BIS(2-ETHYLHEXYL) PHTHALATE	.059 J	.18 J	3.9 U	.4 U
BUTYLBENZYLPHTHALATE	.39 U	.028 J	3.9 U	.4 U
CHLOROBENZILATE	.39 U	.38 U	3.9 U	4 U ***
CHRYSENE	.28 J	1.3	13 J	.3 J
DIALLATE	.39 U	.38 U	3.9 U	.4 U 199
DIBENZO(A,H)ANTHRACENE	.051 J	,15 J	2.8 J	.066 J
DIBENZOFURAN	.018 J	13 J	3.9 UJ	.4 UJ
DIETHYL PHTHALATE	.39 U	.38 U	3.9 U	.4 U
DIMETHYL PHTHALATE	.39 U	.38 U	3.9 U	.4 U
DI-N-BUTYL PHTHALATE	.39 U	.38 U	3.9 U	.4 U
DI-N-OCTYL PHTHALATE	.39 U	.38 U	3.9 U	,4 U
DINOSEB	.39 U	.38 U	3.9 U	#4 U
ETHYL METHANESULFONATE	.39 U	.38 U	3.9 U	.4 U

TABLE 2
Appendix IX Semivolatile Results
(Results are presented in part per million, ppm)

	·			Province and the second
Transect		T110	T110	T116
Location ID	BS000253	BS000254	RB021105	RB021164
Date Collected	04/02/2002	04/02/2002	11/10/1998	11/10/1998
Depth (ft)		0.0-1.0	1.0-1.5	0.0-0.5
Exposure Area	East Riverbank	East Riverbank	East Riverbank	East Riverbank
Analyte				
FLUORANTHENE	.53	2.5	16 J	.52 J
FLUORENE	.023 J	.16 J	1.3 J	.019 J
HEXACHLOROBUTADIENE	.39 U	.38 U	3.9 U	.4 U
HEXACHLOROCYCLOPENTADIENE	R	3.8 UJ	3.9 U	.4 U
HEXACHLOROETHANE	.39 U	.38 U	3.9 U	.4 U
HEXACHLOROPROPENE	.39 U	.38 U	3.9 U	.4 U
INDENO(1,2,3-C,D)PYRENE	.15 J	.49	9.6	.26 J
ISOPHORONE	.39 U	.38 U	3.9 U	.4 U
ISOSAFROLE	.39 U	38 U	3.9 U	.4 U
METHAPYRILENE	.39 U	.38 U	3.9 UJ	.4 U
METHYL METHANESULFONATE	.39 U	.38 U	3.9 U	.4 U
NAPHTHALENE	.034 J	.14 J	1.7 J	.022 J
NITROBENZENE	.39 U	.38 U	3.9 U	,4 U
NITROSOMETHYLETHYLAMINE	.39 U	.38 U	3.9 U	.4 U
N-NITROSODIETHYLAMINE	.39 U	.38 U	3.9 U	.4 U
N-NITROSODIMETHYLAMINE	.39 UJ	.38 UJ	3.9 U	.4 U
N-NITROSO-DI-N-BUTYLAMINE	.39 U	.38 U	3.9 U	,4 U 15 min
N-NITROSO-DI-N-PROPYLAMINE	.39 UJ	.38 UJ	3.9 U	.4 U
N-NITROSODIPHENYLAMINE	.39 UJ	.38 UJ	3.9 U	.4 U
N-NITROSOMORPHOLINE	.39 U	.38 U	3.9 U	.4 U
N-NITROSOPIPERIDINE	.39 U	.38 U	3.9 U	.4 U
N-NITROSOPYRROLIDINE	.39 U	.38 U	3.9 U	.4 U
O-TOLUIDINE	.39 U	.38 U	3.9 U	.4 U
P-DIMETHYLAMINOAZOBENZENE	.39 U	.38 U	3.9 U	.4 U
PENTACHLOROETHANE	.39 U	.38 U	3.9 U	100 to 1,4 U
PENTACHLORONITROBENZENE	.39 U	.38 U	3.9 U	.4 U
PENTACHLOROPHENOL	.98 U	R	9.9 U	R
PHENACETIN	.39 U	.38 U	3.9 U	.4 U
PHENANTHRENE	.3 J	2.1	8.7 J	.24 J
PHENOL	.39 U	R	3.9 U	R
P-PHENYLENEDIAMINE	.39 UJ	.38 UJ	3.9 UJ	.4 UJ
PRONAMIDE	.39 U	.38 U	3.9 U	.4 U
PYRENE	.54	3	26	.56 J
PYRIDINE	.39 U	.38 U	3.9 U	.4 U
SAFROLE	.39 U	38 U	3.9 U	4 U

TABLE 3
Summary of PCB UCL Evaluation to Determine Remediation Limits

				UCL Inform		
Zone	Bank Position	Sample Depths (ft)	Data Distribution	UCL	UCL Method	Remediation requirement
	Low	0 - 3	Lognormal	8.24238	95% Chebyshev (MVUE)	All UCLs less than the 10 ppm cleanup level. Data indicates that No Remediation is necessary within the entire Zone.
Zone 1 (West Bank)	Mid	0 - 3	Normal	0.15488	95% Student's-t	Within the ortho zone.
	High	0 - 3	Non-Parametric		95% Standard Bootstrap 95% Bootstrap-t	
	Low	0 - 3	Lognormal	0.63376	99% Chebyshev (MVUE)	All UCLs less than the 10 ppm cleanup level. Data indicates that No Remediation is necessary within the entire Zone.
Zone 2a Mid (West Bank)	0 - 3	Normal	0.16455	95% Student's-t	within the entire 2016.	
	high	0 - 3	Non-Parametric		95% Standard Bootstrap 95% Bootstrap-t	
Zone 2b (West Bank)	high	0 - 3	Normal	0.19905	95% Student's-t	The UCL result less than the 10 ppm cleanup level. Data indicates that No Remediation is necessary within the entire Zone.
		0 - 3	Normal	17.24217	95% Student's-t	The UCL result for the data within 0-3 foot depth exceeded the cleanup level of 10 ppm. Additional calculations performed on 0-1ft and 1-
Zone 2c (West Bank)	mid	0 - 1	Data Set Too Small Default to max PCB	22.00	Data Set Too Small Default to max PCB within the data set	3 ft depths. The 0-1 ft data set was too small to obtain a UCL result. The UCL results for the 1-3 ft depth are less than the 10 ppm cleanup level. Remediation in Zone 2c necessary within the 0-1
		1 - 3	Lognormal	7.87707	95% Chebyshev (MVUE)	ft depth.
		0 - 3	Normal	70.442255	95% Student's-t	The UCL result for the data within 0-3 foot depth exceeded the cleanup level of 10 ppm. The data sets for additional calculations for the 0-1ft and 1-
Zone 2d (West Bank)	mid	0 - 1	Data Set Too Small Default to max PCB	2.40	to max PCB within the data set	3 ft depths did not have enough data to obtain UCL results therefore the 0-3 ft depth calculation was used to determine the remidiation depth.
		1 - 3		Data Set Too Small Default to max PCB	100.00	Data Set Too Small Default to max PCB within the data set

TABLE 3
Summary of PCB UCL Evaluation to Determine Remediation Limits

				UCL Inform		
Zone	Bank Position	Sample Depths (ft)	Data Distribution	UCL	UCL Method	Remediation requirement
Zone 3a		0-3	Non-Parametric		95% Standard Bootstrap 95% Bootstrap-t	The UCL result for the data within 0-3 foot depth exceeded the cleanup level of 10 ppm.  Additional calculations performed on the 0-3 ft depth with one high PCB result (700 ppm) removed. The calculation with the 700 ppm PCB removed resulted with the UCL below the 10
(West Bank)		0-3	Non-Parametric	6.708152 - 9.679984 <sup>t</sup>	95% CLT 95% Bootstrap-t	ppm cleanup level. 0-3 ft depth Remediation necessary only within the area that contained the 700 ppm PCB result (hotspot). No Remediation is necessary within the rest of Zone 3a.
		0 - 3	Normal	59.88685	95% Student's-t	The UCL result for the data within 0-3 foot depth exceeded the cleanup level of 10 ppm.  Additional calculations for the 0-1ft and 1-3 ft
Zone 3	mid	0 - 1	Normal	39.35817	95% Student's-t	depths were performed, again the results exceeded the cleanup level. Remidiation necessary for the 0-3 ft depth in the mid bank area in Zone 3.
(West Bank)		1 - 3	Normal	99.69963	95% Student's-t	Ti- 1101
	high			4.070050	059/11/10/	The UCL result less than the 10 ppm cleanup level. Data indicates that No Remediation is necessary within the high bank of Zone 3.
		0 - 3	Lognormal	1.078952	95% H-UCL	The LIOL could for the date within 0.2 feet don't
		0 - 3	Lognormal	22.001419	95% Chebyshev (MVUE)	The UCL result for the data within 0-3 foot depth exceeded the cleanup goal of 10 ppm. Additional calculations for the 0-1ft and 1-3 ft depths were performed. The 0-1ft result exeeded
Zone 4 (East Bank)	Low	0 - 1	Lognormal	171.34044	99% Chebyshev (MVUE)	the cleanup goal, however the 1-3ft result was below the cleanup goal. Remidiation necessary for the 0-1 ft depth in the low bank area in Zone 4.
		1 - 3	Normal	2.687925	95% Student's-t	·.

TABLE 3
Summary of PCB UCL Evaluation to Determine Remediation Limits

				UCL Inform		
Zone	Bank Position	Sample Depths (ft)	Data Distribution	UCL	UCL Method	Remediation requirement
		0 - 3	Lognormal	19.215549	95% Chebyshev (MVUE)	The UCL result for the data within 0-3 foot depth exceeded the cleanup level of 10 ppm. Additional calculations for the 0-1ft and 1-3 ft depths were performed. The 0-1ft result was
Zone 4 (East Bank)	Mid	0 - 1	Lognormal	7.4644046	95% Chebyshev (MVUE)	below the cleanup level, however the 1-3ft result exceeded the cleanup level of 10 ppm. Remidiation necessary for the 0-3 ft depth in the mid bank area in Zone 4.
		1 - 3	Lognormal	35.971884	95% Chebyshev (MVUE)	
	High	0 - 3	Lognormal	1.1071375	95% H-UCL	The UCL result less than the 10 ppm cleanup level. Data indicates that No Remediation is necessary within the high bank of Zone 4.
		0 - 3	Lognormal	29.82203	95% Chebyshev (MVUE)	The UCL result for the data within 0-3 foot depth exceeded the cleanup goal of 10 ppm.  Additional calculations for the 0-1ft and 1-3 ft depths were performed. The 0-1ft data set did
	mid	0 - 1	Data Set Too Small Default to max PCB	9.30	to max PCB within the data set	not have enough data to obtain UCL results and the 1-3ft result exeeded the cleanup goal.  Remidiation necessary for the 0-3 ft depth in the
		1 - 3	Lognormal	82.21741	99% Chebyshev (MVUE)	mid bank area in Zone 5.
Zone 5 (East Bank)		0 - 3	Lognormal	13,000.00	Result could not be obtained. Default to max PCB within the data set	The UCL results could not be obtained for the 0-3 ft depth. There was one high PCB result (13,000ppm) which caused this. Additional calculations were performed on the 0-1 ft and 1-3 ft depths. The 0-1 ft data set was too small to
	high	0 - 1	Data Set Too Small Default to max PCB	100.00	Data Set Too Small Default to max PCB within the data set	obtain a UCL result. Again for the 1-3 ft depth
		1 - 3	Lognormal	13,000.00	Result could not be obtained. Default to max PCB within the data set	for the 0-3 ft depth in the high bank area in Zone 5.

TABLE 3
Summary of PCB UCL Evaluation to Determine Remediation Limits

				UCL Inform	ation	
Zone	<b>Bank Position</b>	Sample Depths (ft)	Data Distribution	UCL	UCL Method	Remediation requirement
		0 - 3	Normal	48.98244	95% Student's-t	The UCL result for the data within 0-3 foot depth exceeded the cleanup goal of 10 ppm.  Additional calculations for the 0-1ft and 1-3 ft
	mid		Data Set Too Small		to max PCB within the	depths were performed. The 0-1ft data set did not have enough data to obtain UCL results and
Zone 6 (East Bank)		0 - 1	Default to max PCB	84.00	data set	the 1-3ft result exeeded the cleanup goal. Remidiation necessary for the 0-3 ft depth in the mid bank area in Zone 6.
		1 - 3	Normal	27.7842	95% Student's-t	The ball a sea in Estite of
	high	0 - 3	Lognormal	0.702075	95% H-UCL	The UCL result less than the 10 ppm cleanup level. Data indicates that No Remediation is necessary within the high bank of Zone 6.
Zone 7 (East Bank)	mid/high	0 - 3	Non-Parametric	1 .	95% Standard Bootstrap 95% Bootstrap-t	The UCL result less than the 10 ppm cleanup level. Data indicates that No Remediation is necessary within the mid/high bank area in Zone 7.

#### Notes:

Duplicate sample results: If both sample results were non-detects, the higher result was used at its full detection limit. If both sample results were detects/hits, the results were averaged. If one sample result was a detect/hit and one a non-detect, the result with the detect/hit was used.

<sup>&</sup>lt;sup>t</sup> The minimum and maximum of five separate non parametric UCL calculations is presented All non-detected PCB results were used at 1/2 detection limit

TABLE 4
Appendix IX Semivolatile Results
Post-PCB Remediation

	7110	7444	T444	T444	T116	T116	T116
Transect	T110	T114	T114	T114	T116	BS000235	BS000236
Location ID	RB021101	BS000233	BS000234	RB021143	BS000235 04/01/2002	04/01/2002	04/01/2002
Date Collected	11/16/1998	04/01/2002	04/01/2002	11/12/1998			0.0-1.0
Depth (ft)	0.0-0.5	0.0-1.0	2.0-3.0	0.0-0.5	1.0-2.0	1.0-2.0	West Riverbank
Exposure Area	West Riverbank	West Riverbank	vvest Riverbank				
Analyte							
APP IX SEMIVOLATILES							
1,2,4,5-TETRACHLOROBENZENE	.33U	.7 UJ	.38 U	.33U	.46 U	.43 U	.44 U
HEXACHLOROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
PENTACHLOROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
1,2,4-TRICHLOROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
1,2-DICHLOROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 UJ
1,3,5-TRINITROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
1,3-DICHLOROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
1,3-DINITROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
1,4-DICHLOROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
1,4-NAPHTHOQUINONE	.33U	.7 U	.38 U	.33U	.061 J	.43 U	.44 U
1-NAPHTHYLAMINE	.33U	.7 U	.38 UJ	.33U	.46 UJ	.43 UJ	.44 UJ
2,3,4,6-TETRACHLOROPHENOL	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
2,4,5-TRICHLOROPHENOL	.83U	1.8 U	.96 U	.83U	1.2 U	1.1 U	1.1 U
2,4,6-TRICHLOROPHENOL	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 UJ
2,4-DICHLOROPHENOL	.33U	.7 U	.38 U	.33U	.46 U	.43 U	,44 U
2,4-DIMETHYLPHENOL	.33U	R	R	.33U	R	R	R
2,4-DINITROPHENOL	.83U	1.8 U	.96 U	.83U	1.2 U	1.1 U	1.1 U
2,4-DINITROTOLUENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
2,6-DICHLOROPHENOL	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
2,6-DINITROTOLUENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
2-ACETYLAMINOFLUORENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
2-CHLORONAPHTHALENE	.33U	.7 UJ	.38 UJ	.33U	.46 UJ	.43 UJ	.44 UJ
2-CHLOROPHENOL	.33U	.7 UJ	.38 UJ	.33U	.46 U	.43 U	.44 UJ
2-METHYLNAPHTHALENE	.33U	.7 UJ	.1 J	.33U	.46 U	.43 U	.21 J
2-METHYLPHENOL (O-CRESOL)	.33U	R	R	.33U	.46 UJ	.43 UJ	R
2-NAPHTHYLAMINE	.33U	.7 U	.38 UJ	.33U	.46 UJ	.43 UJ	.44 UJ
2-NITROANILINE	.83U	1.8 U	.96 U	.83U	1,2 U	1.1 U	1.1 U
2-NITROPHENOL	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
2-PICOLINE (ALPHA-PICOLINE)	.33U	,7 U	.38 U	.33U	.46 U	.43 U	.44 U
3,3'-DICHLOROBENZIDINE	.33U	R	R	.33U	.46 U	.43 U	R
3,3'-DIMETHYLBENZIDINE	.33U	.7 U	.38 UJ	.33U	.46 UJ	.43 UJ	.44 UJ
3-METHYLCHOLANTHRENE	.33U	.7 UJ	.38 U	.33U	.46 U	.43 U	.44 U
3-NITROANILINE	.83U	1.8 UJ	.96 UJ	.83U	1.2 U	1.1 U	R
4,6-DINITRO-2-METHYLPHENOL	.83U	1.8 U	.96 U	.83U	1.2 U	1.1 U	1.1 U
4-AMINOBIPHENYL	.33U	.7 U	.38 UJ	.33U	.46 UJ	.43 UJ	.44 UJ
4-BROMOPHENYL PHENYL ETHER	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
4-CHLORO-3-METHYLPHENOL	.33U	.7 UJ	.38 UJ	.33U	.46 U	.43 U	.44 U

TABLE 4
Appendix IX Semivolatile Results
Post-PCB Remediation

Transect	T110	T114	T114	T114	T116	T116	T116
Location ID	RB021101	BS000233	BS000234	RB021143	BS000235	BS000235	BS000236
Date Collected	11/16/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002	04/01/2002
Depth (ft)	0.0-0.5	0.0-1.0	2.0-3.0	0.0-0.5	1.0-2.0	1.0-2.0	0.0-1.0
Exposure Area	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank
Analyte		770001111001001111				***************************************	
4-CHLOROANILINE	.33U	R	R	.33U	.46 U	.43 U	R
4-CHLOROPHENYL PHENYL ETHER	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
4-METHYLPHENOL	.33U	.06 J	.38 UJ	.33U	.46 U	.43 U	.44 UJ
4-NITROANILINE	.83U	1.8 UJ	.96 UJ	.83U	1.2 U	1.1 U	R
4-NITROPHENOL	.83U	1.8 U	.96 U	.83U	1.2 UJ	1.1 U	1.1 U
4-NITROQUINOLINE-1-OXIDE	.33U	R	R	.33U	R	R	R
5-NITRO-O-TOLUIDINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
7,12-DIMETHYLBENZ(A)ANTHRACENE	.33U	.7 UJ	.38 U	.33U	.46 U	.43 U	.44 U
A,A-DIMETHYLPHENETHYLAMINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
ACENAPHTHENE	.33U	.7 U	.062 J	.33U	.46 U	.43 U	.062 J
ACENAPTHYLENE	.33U	.44 J	.42 J	.33U	.025 J	.024 J	.16 J
ACETOPHENONE	.33U	.049 J	.045 J	.33U	.46 U	.43 U	.026 J
ANILINE	.83U	R	R	.83U	R	R	R
ANTHRACENE	.33U	.094 J	.26 J	.33U	.041 J	.034 J	.16 J
ARAMITE	.33U	R	R	.33U	R	R	R
AZOBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
BENZO(A)ANTHRACENE	.33U	.072 J	1.9 J	.33U	.14 J	.15 J	.83
BENZO(A)PYRENE	.33U	.053 J	2 J	.33U	.16 J	.15 J	.93
BENZO(B)FLUORANTHENE	.33U	.078 J	2.4	.33U	.16 J	.18 J	1.4 J
BENZO(GHI)PERYLENE	.33U	.7 UJ	.85 J	.33U	.22 J	.29 J	.49
BENZO(K)FLUORANTHENE	.33U	.087 J	.38 U	.33U	.21 J	.25 J	1.2
BENZYL ALCOHOL	.33U	.7 UJ	.38 U	.33U	.46 U	.43 U	.44 U
BIS(2-CHLOROETHOXY) METHANE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
BIS(2-CHLOROETHYL) ETHER	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
BIS(2-CHLOROISOPROPYL) ETHER	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
BIS(2-ETHYLHEXYL) PHTHALATE	.33U	.5 J	.052 J	.33U	.031 J	.023 J	.029 J
BUTYLBENZYLPHTHALATE	.33U	.083 J	.38 U	.33U	.46 U	.43 U	.44 U
CHLOROBENZILATE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
CHRYSENE	.33U	.071 J	2.1 J	.33U	.16 J	.17 J	.94
DIALLATE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
DIBENZO(A,H)ANTHRACENE	.33U	.7 UJ	.72 J	.33U	.043 J	.049 J	.18 J
DIBENZOFURAN	.33U	.7 U	.072 J	.33U	.46 U	.43 U	.059 J
DIETHYL PHTHALATE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
DIMETHYL PHTHALATE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
DI-N-BUTYL PHTHALATE	.33U	.033 J	.38 U	.33U	.46 U	.43 U	.44 U
DI-N-OCTYL PHTHALATE	.33U	.7 UJ	.38 U	.33U	.46 U	.43 U	.44 U
DINOSEB	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
ETHYL METHANESULFONATE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U

TABLE 4
Appendix IX Semivolatile Results
Post-PCB Remediation

Transect	T110	T114	T114	T114	T116	T116	T116
Location ID	RB021101	BS000233	BS000234	RB021143	BS000235	BS000235	BS000236
Date Collected	11/16/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002	04/01/2002
Depth (ft)	0.0-0.5	0.0-1.0	2.0-3.0	0.0-0.5	1.0-2.0	1.0-2.0	0.0-1.0
Exposure Area	West Riverbank						
Analyte							
FLUORANTHENE	.33U	.035 J	2.9 J	.33U	.26 J	.25 J	1.5
FLUORENE	.33U	.7 U	.1 J	.33U	.46 U	.43 U	.088 J
HEXACHLOROBUTADIENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
HEXACHLOROCYCLOPENTADIENE	.33U	R	R	.33U	.46 U	.43 U	R
HEXACHLOROETHANE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
HEXACHLOROPROPENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
INDENO(1,2,3-C,D)PYRENE	.33U	.7 UJ	1.8 J	.33U	.21 J	.27 J	.56
ISOPHORONE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
ISOSAFROLE	.33U	.7 UJ	.38 U	.33U	.46 U	.43 U	.44 U
METHAPYRILENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
METHYL METHANESULFONATE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
NAPHTHALENE	.33U	.7 U	.22 J	.33U	.04 J	.055 J	.26 J
NITROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
NITROSOMETHYLETHYLAMINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
N-NITROSODIETHYLAMINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
N-NITROSODIMETHYLAMINE	.33U	.7 UJ	.38 UJ	.33U	.46 U	.43 U	.44 U
N-NITROSO-DI-N-BUTYLAMINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
N-NITROSO-DI-N-PROPYLAMINE	.33U	.7 UJ	.38 UJ	.33U	.46 U	.43 U	.44 U
N-NITROSODIPHENYLAMINE	.33U	.7 UJ	.38 UJ	.33U	.46 U	.43 U	.44 UJ
N-NITROSOMORPHOLINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
N-NITROSOPIPERIDINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
N-NITROSOPYRROLIDINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
O-TOLUIDINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
P-DIMETHYLAMINOAZOBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
PENTACHLOROETHANE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
PENTACHLORONITROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
PENTACHLOROPHENOL	.83U	1.8 U	.96 U	.83U	1.2 U	1.1 U	R
PHENACETIN	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
PHENANTHRENE	.33U	.7 U	1.4 J	.33U	.14 J	.14 J	.9
PHENOL	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 UJ
P-PHENYLENEDIAMINE	.33U	.7 UJ	.38 UJ	.33U	.46 UJ	.43 UJ	.44 UJ
PRONAMIDE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
PYRENE	.33U	.063 J	2.7	.33U	.26 J	.23 J	1.4
PYRIDINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	R
SAFROLE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U

TABLE 4
Appendix IX Semivolatile Results
Post-PCB Remediation

			T440	7440	T118	T120	T120
Transect	T116	T116	T118	T118	RB021183	BS000239	BS000240
Location ID	BS000236	RB021162	BS000237 04/01/2002	BS000238 04/01/2002	11/12/1998	04/01/2002	04/01/2002
Date Collected	04/01/2002	11/12/1998 0.0-0.5	2.0-3.0	1.0-2.0	1.0-1.5	0.0-1.0	2.0-3.0
Depth (ft)	0.0-1.0	0.0-0.5 West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank
Exposure Area	West Riverbank	vvest Riverbank	vvest Riverbank	vvest Riverbank	VVEST KIVEIDAIK	VVCS( IXIVGIDALIK	VVCSETAVCIDATIA
Analyte							
APP IX SEMIVOLATILES	40.11	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1,2,4,5-TETRACHLOROBENZENE	.46 U .46 U	.33U .33U	.42 U	.39 U	.33U	.4 U	.38 U
HEXACHLOROBENZENE PENTACHLOROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1,2,4-TRICHLOROBENZENE 1,2-DICHLOROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1,3,5-TRINITROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1,3-DICHLOROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1,3-DINITROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1,4-DICHLOROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1,4-NAPHTHOQUINONE	.079 J	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1-NAPHTHYLAMINE	.46 UJ	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
2,3,4,6-TETRACHLOROPHENOL	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 UJ
2,4,5-TRICHLOROPHENOL	1.2 U	.83U	1.1 U	.99 U	.83U	1 U	.95 UJ
2.4.6-TRICHLOROPHENOL	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 UJ
2,4-DICHLOROPHENOL	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 UJ
2,4-DIMETHYLPHENOL	R	.33U	R	R	.33U	R	.38 UJ
2,4-DINITROPHENOL	1.2 U	.83U	1.1 U	.99 U	.83U	1 U	.95 UJ
2,4-DINITROTOLUENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
2,6-DICHLOROPHENOL	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 UJ
2,6-DINITROTOLUENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
2-ACETYLAMINOFLUORENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
2-CHLORONAPHTHALENE	.46 UJ	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
2-CHLOROPHENOL	.46 U	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
2-METHYLNAPHTHALENE	.039 J	.33U	.043 J	.39 U	.33U	.2 J	.38 U
2-METHYLPHENOL (O-CRESOL)	.46 UJ	.33U	R	R	.33U	R	.38 UJ
2-NAPHTHYLAMINE	.46 UJ	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
2-NITROANILINE	1.2 U	.83U	1,1 U	.99 U	.83U	1 U	.95 U
2-NITROPHENOL	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 UJ
2-PICOLINE (ALPHA-PICOLINE)	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
3,3'-DICHLOROBENZIDINE	.46 U	.33U	R	R	.33U	R	.38 U
3,3'-DIMETHYLBENZIDINE	.46 UJ	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
3-METHYLCHOLANTHRENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
3-NITROANILINE	1.2 U	.83U	1.1 UJ	.99 UJ	.83U	1 UJ	.95 U
4,6-DINITRO-2-METHYLPHENOL	1.2 U	.83U	1.1 U	.99 U	.83U	1 U	.95 UJ
4-AMINOBIPHENYL	.46 UJ	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
4-BROMOPHENYL PHENYL ETHER	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
4-CHLORO-3-METHYLPHENOL	.46 U	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ

TABLE 4
Appendix IX Semivolatile Results
Post-PCB Remediation

							****
Transect	T116	T116	T118	T118	T118	T120	T120
Location ID	BS000236	RB021162	BS000237	BS000238	RB021183	BS000239	BS000240
Date Collected	04/01/2002	11/12/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002
Depth (ft)	0.0-1.0	0.0-0.5	2.0-3.0	1.0-2.0	1.0-1.5	0.0-1.0	2.0-3.0
Exposure Area	West Riverbank						
Analyte							
4-CHLOROANILINE	.46 U	.33U	R	R	.33U	R	.38 U
4-CHLOROPHENYL PHENYL ETHER	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
4-METHYLPHENOL	.46 U	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
4-NITROANILINE	1,2 U	.83U	1.1 UJ	.99 UJ	.83U	1 UJ	.95 U
4-NITROPHENOL	1.2 U	.83U	1.1 U	.99 U	.83U	1 U	.95 UJ
4-NITROQUINOLINE-1-OXIDE	R	.33U	R	R	.33U	R	R
5-NITRO-O-TOLUIDINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
7,12-DIMETHYLBENZ(A)ANTHRACENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
A,A-DIMETHYLPHENETHYLAMINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
ACENAPHTHENE	.029 J	.33U	.42 U	.39 U	.33U	.15 J	.38 U
ACENAPTHYLENE	.064 J	.33U	.065 J	.39 U	.33U	.42	.055 J
ACETOPHENONE	.026 J	.33U	.42 U	.39 U	.33U	.041 J	.38 U
ANILINE	R	.83U	R	R	.83U	R	.95 UJ
ANTHRACENE	.1 J	.33U	.049 J	.39 U	.33U	.79	.053 J
ARAMITE	R	.33U	R	R	.33U	R	R
AZOBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
BENZO(A)ANTHRACENE	.66	.33U	.24 J	.39 U	.33U	4.7	.52
BENZO(A)PYRENE	.68	.33U	.027 J	.39 U	.33U	5.1 J	.53
BENZO(B)FLUORANTHENE	.91	.33U	.24 J	.39 U	.33U	5.2 J	.77
BENZO(GHI)PERYLENE	.38 J	.33U	.42 U	.39 U	.33U	1.8	.43
BENZO(K)FLUORANTHENE	1.1	.33U	.2 J	.39 U	.33U	.4 U	.72
BENZYL ALCOHOL	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 UJ
BIS(2-CHLOROETHOXY) METHANE	.46 U	.33U	.42 U	.39 U	,33U	.4 U	.38 U
BIS(2-CHLOROETHYL) ETHER	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
BIS(2-CHLOROISOPROPYL) ETHER	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
BIS(2-ETHYLHEXYL) PHTHALATE	.056 J	.33U	.42 U	.39 U	.33U	.05 J	.02 J
BUTYLBENZYLPHTHALATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
CHLOROBENZILATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
CHRYSENE	.79	.33U	.22 J	.39 U	.33U	4.2	.69
DIALLATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
DIBENZO(A,H)ANTHRACENE	.18 J	.33U	.092 J	.39 U	.33U	1.1	.16 J
DIBENZOFURAN	.048 J	.33U	.42 U	.39 U	.33U	.18 J	.38 U
DIETHYL PHTHALATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
DIMETHYL PHTHALATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
DI-N-BUTYL PHTHALATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
DI-N-OCTYL PHTHALATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
DINOSEB	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
ETHYL METHANESULFONATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
Secretary 1916 Committee C	, TO U	.550	.44 U		.330	<u>.4 U</u>	.30 U

TABLE 4
Appendix IX Semivolatile Results
Post-PCB Remediation

	,	ourre are preser					
Transect	T116	T116	T118	T118	T118	T120	T120
Location ID	BS000236	RB021162	BS000237	BS000238	RB021183	BS000239	BS000240
Date Collected	04/01/2002	11/12/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002
Depth (ft)	0.0-1.0	0.0-0.5	2.0-3.0	1.0-2.0	1.0-1.5	0.0-1.0	2.0-3.0
Exposure Area	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank
Analyte							
FLUORANTHENE	1.2	.33U	.34 J	.39 U	.33U	5.4	1.1
FLUORENE	.034 J	.33U	.42 U	.39 U	.33U	.22 J	.022 J
HEXACHLOROBUTADIENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
HEXACHLOROCYCLOPENTADIENE	.46 U	.33U	R	R	.33U	R	.38 U
HEXACHLOROETHANE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
HEXACHLOROPROPENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
INDENO(1,2,3-C,D)PYRENE	.5	.33U	.045 J	.39 U	.33U	2.1	.47
ISOPHORONE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
ISOSAFROLE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
METHAPYRILENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
METHYL METHANESULFONATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
NAPHTHALENE	.14 J	.33U	.095 J	.39 U	.33U	.44	.069 J
NITROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
NITROSOMETHYLETHYLAMINE	.46 U	.33U	.42 U	.39 UJ	.33U	.4 U	.38 U
N-NITROSODIETHYLAMINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
N-NITROSODIMETHYLAMINE	.46 U	.33U	.42 UJ	.39 U	.33U	.4 UJ	.38 U
N-NITROSO-DI-N-BUTYLAMINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
N-NITROSO-DI-N-PROPYLAMINE	.46 U	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 U
N-NITROSODIPHENYLAMINE	.46 U	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 U
N-NITROSOMORPHOLINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
N-NITROSOPIPERIDINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
N-NITROSOPYRROLIDINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
O-TOLUIDINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
P-DIMETHYLAMINOAZOBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
PENTACHLOROETHANE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
PENTACHLORONITROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
PENTACHLOROPHENOL	1.2 U	.83U	1.1 U	.99 U	.83U	1 U	.95 UJ
PHENACETIN	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
PHENANTHRENE	.56	.33U	.22 J	.39 U	.33U	3	.41
PHENOL	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 UJ
P-PHENYLENEDIAMINE	.46 UJ	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
PRONAMIDE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
PYRENE	1	.33U	.1 J	.39 U	.33U	8.3 J	.9
PYRIDINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
SAFROLE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
	······	<del></del>					

TABLE 4
Appendix IX Semivolatile Results
Post-PCB Remediation

		77.400	7400	T400	T122	T124	T124
Transect	T120	T122	T122	T122 RB021221	RB021222	BS000243	BS000244
Location ID	RB021202	BS000241	BS000242 04/01/2002	11/12/1998	06/13/2000	04/01/2002	04/01/2002
Date Collected	11/12/1998	04/01/2002	L	0.0-0.5	4.0-4.5	2.0-3.0	1.0-2.0
Depth (ft)	1.0-1.5	1.0-2.0	0.0-1.0 West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank
Exposure Area	West Riverbank	West Riverbank	vvest Riverbank	vvest Riverbank	vvest Kiverbank	VVest Kiverbank	VVC3t (Welbalk
Analyte							
APP IX SEMIVOLATILES	0011	44.11	.33U	.33U	.38 U	.36 U	.4 U
1,2,4,5-TETRACHLOROBENZENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U
HEXACHLOROBENZENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U
PENTACHLOROBENZENE	.33U	.41 U			.38 U	.36 U	.4 U
1,2,4-TRICHLOROBENZENE	.33U	.41 U	.33U	.33U .33U	.38 UJ	.36 U	.4 U
1,2-DICHLOROBENZENE	.33U	.41 U	.33U	.33U	.38 UJ	.36 U	.4 U
1,3,5-TRINITROBENZENE	.33U	.41 U	.33U		.38 UJ	.36 U	.4 U
1,3-DICHLOROBENZENE 1,3-DINITROBENZENE	.33U .33U	.41 U .41 U	.33U .33U	.33U .33U	.38 UJ	.36 U	4 U
1,4-DICHLOROBENZENE	.33U .33U	.41 U	.33U	.33U	.38 UJ	.36 U	.4 U
1.4-NAPHTHOQUINONE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U
1-NAPHTHYLAMINE	.33U	.41 UJ	.33U	.33U	.38 U	.36 U	.4 UJ
2,3,4,6-TETRACHLOROPHENOL	.33U	.41 U	.33U	.33U	.38 UJ	.36 U	1.6 UJ
2,4,5-TRICHLOROPHENOL	.83U	1 U	.83U	.83U	.95 U	.9 U	4 UJ
2,4,6-TRICHLOROPHENOL	.33U	.41 U	.33U	.33U	.38 U	.36 U	1.6 UJ
2.4-DICHLOROPHENOL	.33U	.41 U	.33U	.33U	.38 U	.36 U	1.6 UJ
2,4-DIMETHYLPHENOL	.33U	.410 R	.33U	.33U	.38 U	R .30 0	1.6 UJ
2,4-DINITROPHENOL	.83U	1 U	.83U	.83U	.95 UJ	.9 U	4 UJ
2.4-DINITROTOLUENE	.33U	.41 U	.33U	.33U	.38 UJ	.36 U	.4 U
2.6-DICHLOROPHENOL	.33U	.41 U	.33U	.33U	.38 U	.36 U	1.6 UJ
2,6-DINITROTOLUENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U
2-ACETYLAMINOFLUORENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U
2-CHLORONAPHTHALENE	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.4 UJ
2-CHLOROPHENOL	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	1.6 UJ
2-METHYLNAPHTHALENE	.33U	.045 J	.33U	.33U	.073 J	.066 J	1.6 UJ
2-METHYLPHENOL (O-CRESOL)	.33U	.040 0 R	.33U	.33U	.38 U	R	1.6 UJ
2-NAPHTHYLAMINE	.33U	.41 UJ	.33U	.33U	.38 U	.36 U	.4 UJ
2-NITROANILINE	.83U	1 U	.83U	.83U	.95 U	.9 U	*1U
2-NITROPHENOL	.33U	.41 U	.33U	.33U	.38 U	.36 U	1.6 UJ
2-PICOLINE (ALPHA-PICOLINE)	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U
3,3'-DICHLOROBENZIDINE	.33U	R	.33U	.33U	.38 U	R	1.6 UJ
3,3'-DIMETHYLBENZIDINE	.33U	.41 UJ	.33U	.33U	.38 U	.36 U	.4 U.J
3-METHYLCHOLANTHRENE	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.4 U
3-NITROANILINE	.83U	1 UJ	.83U	.83U	.95 U	.9 UJ	1 UJ
4,6-DINITRO-2-METHYLPHENOL	.83U	1 U	.83U	.83U	.95 U	.9 U	4 UJ
4-AMINOBIPHENYL	.33U	.41 UJ	.33U	.33U	.38 UJ	.36 U	.4 UJ
4-BROMOPHENYL PHENYL ETHER	.33U	.41 U	.33U	.33U	.38 U	.36 U	4 U
4-CHLORO-3-METHYLPHENOL	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	1.6 UJ
L. OLICORO-O-MICHIELTILLINOL		U	1 .550	1 .000		1 .00 00	1,000

TABLE 4
Appendix IX Semivolatile Results
Post-PCB Remediation

Transect	T120	T122	T122	T122	T122	T124	T124
Location ID	RB021202	BS000241	BS000242	RB021221	RB021222	BS000243	BS000244
Date Collected	11/12/1998	04/01/2002	04/01/2002	11/12/1998	06/13/2000	04/01/2002	04/01/2002
Depth (ft)	1.0-1.5	1.0-2.0	0.0-1.0	0.0-0.5	4.0-4.5	2.0-3.0	1.0-2.0
Exposure Area	West Riverbank						
Analyte							
4-CHLOROANILINE	.33U	R	.33U	.33U	.38 U	R	1.6 UJ
4-CHLOROPHENYL PHENYL ETHER	.33U	.41 U	.33U	.33U	.38 U	.36 U	4 U
4-METHYLPHENOL	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	1.6 UJ
4-NITROANILINE	.83U	1 UJ	.83U	.83U	.95 UJ	.9 UJ	1 UJ
4-NITROPHENOL	.83U	1 U	.83U	.83U	.95 U	.9 U	4 UJ
4-NITROQUINOLINE-1-OXIDE	.33U	R	.33U	.33U	.38 U	R	R
5-NITRO-O-TOLUIDINE	.33U	.41 U	.33U	.33U	.38 UJ	.36 U	.4 U
7,12-DIMETHYLBENZ(A)ANTHRACENE	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	,4 U
A,A-DIMETHYLPHENETHYLAMINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	4 U
ACENAPHTHENE	.33U	.041 J	.33U	.33U	.068 J	.1 J	.32 J
ACENAPTHYLENE	.33U	.18 J	.33U	.33U	.043 J	.26 J	.35 J
ACETOPHENONE	.33U	.41 U	.33U	.33U	.38 U	.028 J	1.6 UJ
ANILINE	.83U	R	.83U	.83U	R	R	4 UJ
ANTHRACENE	.33U	.23 J	.33U	.33U	.42 J	.77	1.2 J
ARAMITE	.33U	R	.33U	.33U	.38 U	R	R
AZOBENZENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	,4 U
BENZO(A)ANTHRACENE	.33U	1.2	.33U	.33U	.92	3.7	5.1 J
BENZO(A)PYRENE	.33U	1.4 J	.33U	.33U	.7 J	4.2 J	7 J
BENZO(B)FLUORANTHENE	.33U	2.4 J	.33U	.33U	.51	6.3 J	6.3 J
BENZO(GHI)PERYLENE	.33U	2.1 J	.33U	.33U	.33 J	2.2 J	1.6 J
BENZO(K)FLUORANTHENE	.33U	1.2 J	.33U	.33U	.87	.36 UJ	7.3 J
BENZYL ALCOHOL	.33U	.41 U	.33U	.33U	.38 U	.36 U	1.6 UJ
BIS(2-CHLOROETHOXY) METHANE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U
BIS(2-CHLOROETHYL) ETHER	.33U	.41 U	.33U	.33U	.38 U	.36 U	,4 U
BIS(2-CHLOROISOPROPYL) ETHER	.33U	.41 U	.33U	.33U	.38 U	.36 U	4 U
BIS(2-ETHYLHEXYL) PHTHALATE	.33U	.052 J	.33U	.33U	.38 U	.026 J	1 6 UJ
BUTYLBENZYLPHTHALATE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 UJ
CHLOROBENZILATE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U
CHRYSENE	.33U	1.4	.33U	.33U	.81	2.9	4.4 J
DIALLATE	.33U	.41 U	.33U	.33U	.38 U	.36 U	4 U
DIBENZO(A,H)ANTHRACENE	.33U	.83 J	.33U	.33U	.14 J	1.1 J	.67 J
DIBENZOFURAN	.33U	.052 J	.33U	.33U	.1 J	.1 J	.19 J
DIETHYL PHTHALATE	.33U	.41 U	.33U	.33U	.38 U	.36 U	2 3 4 5 1 J
DIMETHYL PHTHALATE	.33U	.41 U	.33U	.33U	.38 U	.36 U	-A-4-32-34 U
DI-N-BUTYL PHTHALATE	.33U	.41 U	.33U	.33U	.38 U	.36 U	1.6 UJ
DI-N-OCTYL PHTHALATE	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.4 U
DINOSEB	.33U	.41 U	.33U	.33U	.38 U	.36 U	4 U
ETHYL METHANESULFONATE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U

TABLE 4
Appendix IX Semivolatile Results
Post-PCB Remediation

Transect	T120	T122	T122	T122	T122	T124	T124
Location ID	RB021202	BS000241	BS000242	RB021221	RB021222	BS000243	BS000244
Date Collected	11/12/1998	04/01/2002	04/01/2002	11/12/1998	06/13/2000	04/01/2002	04/01/2002
Depth (ft)	1.0-1.5	1.0-2.0	0.0-1.0	0.0-0.5	4.0-4.5	2.0-3.0	1.0-2.0
Exposure Area	West Riverbank						
Analyte							
FLUORANTHENE	.33U	1.8	.33U	.33U	1.4	5.3	4.8 J
FLUORENE	.33U	.41 U	.33U	.33U	.17 J	.2 J	.32 J
HEXACHLOROBUTADIENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.,4 U
HEXACHLOROCYCLOPENTADIENE	.33U	R	.33U	.33U	.38 UJ	R	1.6 UJ
HEXACHLOROETHANE	.33U	.41 U	.33U	.33U	.38 U	.36 U	4.4 U
HEXACHLOROPROPENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	4 U
INDENO(1,2,3-C,D)PYRENE	.33U	1.8 J	.33U	.33U	.35 J	2.2 J	2 J
ISOPHORONE	.33U	.41 U	.33U	.33U	.38 U	.36 U	,4 U
ISOSAFROLE	.33U	.41 U	.33U	.33U	.38 U	.36 U	74 U
METHAPYRILENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	4 U
METHYL METHANESULFONATE	.33U	.41 U	.33U	.33U	.38 U	.36 U	,4 U
NAPHTHALENE	.33U	.12 J	.33U	.33U	.22 J	.18 J	.32 J
NITROBENZENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U
NITROSOMETHYLETHYLAMINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U
N-NITROSODIETHYLAMINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	,4 U
N-NITROSODIMETHYLAMINE	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.4 UJ
N-NITROSO-DI-N-BUTYLAMINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	,4 U
N-NITROSO-DI-N-PROPYLAMINE	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.4 UJ
N-NITROSODIPHENYLAMINE	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.4 UJ
N-NITROSOMORPHOLINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U
N-NITROSOPIPERIDINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U
N-NITROSOPYRROLIDINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	,4 U
O-TOLUIDINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	,4 U
P-DIMETHYLAMINOAZOBENZENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	,4 U
PENTACHLOROETHANE	.33U	.41 U	.33U	.33U	.38 U	.36 U	4-3-4-14 U
PENTACHLORONITROBENZENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U
PENTACHLOROPHENOL	.83U	1 U	.83U	.83U	R	.9 U	4 UJ
PHENACETIN	.33U	.41 U	.33U	.33U	.38 U	.36 U	,4U
PHENANTHRENE	.33U	1	.33U	.33U	.79	1.9	2.7 J
PHENOL	.33U	.41 U	.33U	.33U	.38 U	.36 U	1.6 UJ
P-PHENYLENEDIAMINE	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.4 UJ
PRONAMIDE	.33U	.41 U	.33U	.33U	.38 U	.36 U	,4 U
PYRENE	.33U	2.8	.33U	.33U	1.3	5.2	6.6 J
PYRIDINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	,4 U
SAFROLE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.4 U

## TABLE 4 Appendix IX Semivolatile Results Post-PCB Remediation

(Results are presented in parts per million, ppm)

			7100	7400	T128	T128	T130
Transect	T126	T126	T126	T128 BS000247	BS000248	RB021282	RB021301
Location ID	BS000245	BS000246	RB021263 11/11/1998	04/01/2002	04/01/2002	11/11/1998	11/10/1998
Date Collected	04/01/2002	04/01/2002	1.0-1.5	1.0-2.0	0.0-1.0	1.0-1.5	0.0-0.5
Depth (ft)		2.0-3.0	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank
Exposure Area	West Riverbank	West Riverbank	vvest Riverbank	VVEST KIVEIDAIIK	VVEST KIVEIDAIK	VVCSLINVCIDANA	VVC3E KIVOIDAIIK
Analyte							
APP IX SEMIVOLATILES	45.11	2011	2211	.43 U	.33U	.33U	.33U
1,2,4,5-TETRACHLOROBENZENE	.45 U	.39 U	.33U	.43 U	.33U	.33U	.33U
HEXACHLOROBENZENE	.45 UJ	.39 U	.33U		.33U .33U	.33U	.33U
PENTACHLOROBENZENE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
1,2,4-TRICHLOROBENZENE	.45 UJ	.39 U	.33U	.43 U		.33U	.33U
1,2-DICHLOROBENZENE	.45 UJ	.39 U	.33U	.43 U	.33U		.33U
1,3,5-TRINITROBENZENE	.45 UJ	.39 U	.33U	:43 U	.33U	.33U	.33U
1,3-DICHLOROBENZENE	.45 UJ	.39 U	.33U	,43 U	.33U	.33U .33U	.33U .33U
1,3-DINITROBENZENE	.45 UJ	.39 U	.33U	.43 U	.33U		
1,4-DICHLOROBENZENE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
1,4-NAPHTHOQUINONE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
1-NAPHTHYLAMINE	.45 UJ	.39 UJ	.33U	.43 UJ	.33U	.33U	.33U
2,3,4,6-TETRACHLOROPHENOL	.45 UJ	,39 UJ	.33U	R	.33U	.33U	.33Ü
2,4,5-TRICHLOROPHENOL	1.1 UJ	.99 UJ	.83U	R	.83U	.83U	.83U
2,4,6-TRICHLOROPHENOL	.45 UJ	.39 UJ	.33U	R	.33U	.33U	.33U
2,4-DICHLOROPHENOL	.45 UJ	.39 UJ	.33U	R	.33U	.33U	.33U
2,4-DIMETHYLPHENOL	.45 UJ	.39 UJ	.33U	4.3 UJ	.33U	.33U	.33U
2,4-DINITROPHENOL	1.1 UJ	.99 UJ	.83U	Remove	.83U	.83U	.83U
2,4-DINITROTOLUENE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
2,6-DICHLOROPHENOL	,45 UJ	.39 UJ	.33U	R	.33U	.33U	.33U
2,6-DINITROTOLUENE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
2-ACETYLAMINOFLUORENE	.45 UJ	.39 UJ	.33U	.43 UJ	.33U	.33U	.33U
2-CHLORONAPHTHALENE	.45 UJ	.39 UJ	.33U	,43 UJ	.33U	.33U	.33U
2-CHLOROPHENOL	.45 UJ	.39 UJ	.33U	R	.33U	.33U	.33U
2-METHYLNAPHTHALENE	.45 UJ	.39 U	.33U	.47	.33U	.33U	.33U
2-METHYLPHENOL (O-CRESOL)	.45 UJ	.39 UJ	.33U	4.3 UJ	.33U	.33U	.33U
2-NAPHTHYLAMINE	.45 UJ	.39 UJ	.33U	.43 UJ	.33U	.33U	.33U
2-NITROANILINE	1.1 UJ	.99 U	.83U	1.1 U	.83U	.83U	.83U
2-NITROPHENOL	.45 UJ	.39 UJ	.33U	R	.33U	.33U	.33U
2-PICOLINE (ALPHA-PICOLINE)	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
3,3'-DICHLOROBENZIDINE	.45 UJ	.39 UJ	.33U	4.3 UJ	.33U	.33U	.33U
3,3'-DIMETHYLBENZIDINE	.45 UJ	.39 UJ	.33U	.43 UJ	.33U	.33U	.33U
3-METHYLCHOLANTHRENE	.45 UJ	.39 UJ	.33U	.43 UJ	.33U	.33U	.33U
3-NITROANILINE	1.1 UJ	.99 UJ	.83U	1.1 UJ	.83U	.83U	.83U
4,6-DINITRO-2-METHYLPHENOL	1.1 UJ	.99 UJ	.83U	R	.83U	.83U	.83U
4-AMINOBIPHENYL	.45 UJ	.39 UJ	.33U	43 UJ	.33U	.33U	.33U
4-BROMOPHENYL PHENYL ETHER	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
4-CHLORO-3-METHYLPHENOL	.45 UJ	.39 UJ	.33U	a section Representation	.33U	.33U	.33U

TABLE 4
Appendix IX Semivolatile Results
Post-PCB Remediation

Transect		T126	T126	T128	T128	T128	T130
Location ID		BS000246	RB021263	BS000247	BS000248	RB021282	RB021301
Date Collected		04/01/2002	11/11/1998	04/01/2002	04/01/2002	11/11/1998	11/10/1998
Depth (ft)		2.0-3.0	1.0-1.5	1.0-2.0	0.0-1.0	1.0-1.5	0.0-0.5
Exposure Area		West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank
Analyte	Vest (iverbank	**COC PRIVE DUTIN	VVCS( TAVOIDAIN		11001111101201111	***************************************	
4-CHLOROANILINE	.45 UJ	.39 UJ	.33U	4.3 UJ	.33U	.33U	.33U
4-CHLOROPHENYL PHENYL ETHER	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
4-METHYLPHENOL	.45 UJ	.39 UJ	.33U	.23 J	.33U	.33U	.33U
4-NITROANILINE	1.1 UJ	.99 UJ	.83U	1.1 UJ	.83U	.83U	.83U
4-NITROPHENOL	1.1 UJ	.99 U	.83U	R	.83U	.83U	.83U
4-NITROQUINOLINE-1-OXIDE	R	R	.33U	R	.33U	.33U	.33U
5-NITRO-O-TOLUIDINE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
7,12-DIMETHYLBENZ(A)ANTHRACENE	.45 UJ	.39 UJ	.33U	.43 UJ	.33U	.33U	.33U
A,A-DIMETHYLPHENETHYLAMINE	.45 UJ	.39 U	.33U	,43 U	.33U	.33U	.33U
ACENAPHTHENE	.04 J	.39 U	.33U	.89	.33U	.33U	.33U
ACENAPTHYLENE	.087 J	.037 J	.33U	####### 1.3 TO	.33U	.33U	.33U
ACETOPHENONE	.45 UJ	.39 U	.33U	.041 J	.33U	.33U	.33U
ANILINE	1.1 UJ	.99 UJ	.83U	11 UJ	.83U	.83U	.83U
ANTHRACENE	.17 J	.061 J	.33U	3.4	.33U	.33U	.33U
ARAMITE	R	R	.33U	es and R	.33U	.33U	.33U
AZOBENZENE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
BENZO(A)ANTHRACENE	.89 J	.21 J	.33U	12	.33U	.33U	.33U
BENZO(A)PYRENE	1,2 J	.96 J	.33U	12	.33U	.33U	.33U
BENZO(B)FLUORANTHENE	1.6 J	.72 J	.33U	16 J	.33U	.33U	.33U
BENZO(GHI)PERYLENE	.45 J	3.1 J	.33U	2.5 J	,33U	.33U	.33U
BENZO(K)FLUORANTHENE	1.8 J	.59 J	.33U	.43 UJ	.33U	.33U	.33U
BENZYL ALCOHOL	.45 UJ	.39 UJ	.33U	R	.33U	.33U	.33U
BIS(2-CHLOROETHOXY) METHANE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
BIS(2-CHLOROETHYL) ETHER	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
BIS(2-CHLOROISOPROPYL) ETHER	.45 UJ	.39 U	.33U	,43 U	.33U	.33U	.33U
BIS(2-ETHYLHEXYL) PHTHALATE	.45 UJ	.39 UJ	.33U	1.8 J	,33U	.33U	.33U
BUTYLBENZYLPHTHALATE	.45 UJ	.39 UJ	.33U	.43 UJ	.33U	.33U	.33U
CHLOROBENZILATE	.45 UJ	.39 UJ	.33U	.43 UJ	.33U	.33U	.33U
CHRYSENE	.91 J	.28 J	.33U	11 to 11	.33U	.33U	.33U
DIALLATE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
DIBENZO(A,H)ANTHRACENE	.12 J	1.6 J	.33U	1.9 J	.33U	.33U	.33U
DIBENZOFURAN	.036 J	.39 U	.33U	1.3	.33U	.33U	.33U
DIETHYL PHTHALATE	.16 J	.39 U	.33U	.43 U	.33U	.33U	.33U
DIMETHYL PHTHALATE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
DI-N-BUTYL PHTHALATE	.45 UJ	.39 U	.33U	.05 J	.33U	.33U	.33U
DI-N-OCTYL PHTHALATE	.45 UJ	.39 UJ	.33U	.43 UJ	.33U	.33U	.33U
DINOSEB	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
ETHYL METHANESULFONATE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U

## TABLE 4 Appendix IX Semivolatile Results Post-PCB Remediation

(Results are presented in parts per million, ppm)

Transect		T126	T126	T128	T128	T128	T130
Location ID		BS000246	RB021263	BS000247	BS000248	RB021282	RB021301
Date Collected		04/01/2002	11/11/1998	04/01/2002	04/01/2002	11/11/1998	11/10/1998
Depth (ft)		2.0-3.0	1.0-1.5	1.0-2.0	0.0-1.0	1.0-1.5	0.0-0.5
Exposure Area		West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank
Analyte	VVESCINVEDANK	VVC3(TRIVCIDATIR	West reverbance		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
FLUORANTHENE	1.4 J	.26 J	.33U	23	.33U	,33U	.33U
FLUORENE	.043 J	.39 U	.33U	2	.33U	.33U	.33U
HEXACHLOROBUTADIENE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
HEXACHLOROCYCLOPENTADIENE	.45 UJ	.39 UJ	.33U	4.3 UJ	.33U	.33U	.33U
HEXACHLOROETHANE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
HEXACHLOROPROPENE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
INDENO(1,2,3-C,D)PYRENE	.52 J	3.1 J	.33U	3.2 J	.33U	.33U	.33U
ISOPHORONE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
ISOSAFROLE	.45 UJ	.39 U	.33U	43 U	.33U	.33U	.33U
METHAPYRILENE	.45 UJ	.39 U	.33U	,43 U	.33U	.33U	.33U
METHYL METHANESULFONATE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
NAPHTHALENE	.096 J	.026 J	.33U	1.4	.33U	.33U	.33U
NITROBENZENE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
NITROSOMETHYLETHYLAMINE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
N-NITROSODIETHYLAMINE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
N-NITROSODIMETHYLAMINE	.45 UJ	.39 UJ	.33U	.43 UJ	.33U	.33U	.33U
N-NITROSO-DI-N-BUTYLAMINE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
N-NITROSO-DI-N-PROPYLAMINE	.45 UJ	.39 UJ	.33U	.43 UJ	.33U	.33U	.33U
N-NITROSODIPHENYLAMINE	.45 UJ	.39 UJ	.33U	.43 UJ	.33U	.33U	.33U
N-NITROSOMORPHOLINE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
N-NITROSOPIPERIDINE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
N-NITROSOPYRROLIDINE	.45 UJ	.39 U	.33U	,43 U	.33U	.33U	.33U
O-TOLUIDINE	.45 UJ	.39 U	.33U	,43 U	.33U	.33U	.33U
P-DIMETHYLAMINOAZOBENZENE	.45 UJ	.39 UJ	.33U	.43 UJ	.33U	.33U	.33U
PENTACHLOROETHANE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
PENTACHLORONITROBENZENE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
PENTACHLOROPHENOL	1.1 UJ	.99 UJ	.83U	R	.83U	.83U	.83U
PHENACETIN	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
PHENANTHRENE	.64 J	.13 J	.33U	18	.33U	.33U	.33U
PHENOL	.45 UJ	.39 UJ	.33U	R	.33U	.33U	.33U
P-PHENYLENEDIAMINE	.45 UJ	.39 UJ	.33U	.43 UJ	.33U	.33U	.33U
PRONAMIDE	.45 UJ	.39 U	.33U	,43 U	.33U	.33U	.33U
PYRENE	1.8 J	.47 J	.33U	25	.33U	.33U	.33U
PYRIDINE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U
SAFROLE	.45 UJ	.39 U	.33U	.43 U	.33U	.33U	.33U

**TABLE 4** 

### Appendix IX Semivolatile Results **Post-PCB Remediation**

(Results are presented in parts per million, ppm)

Transec	t T110	T110	T110	T116
Location II	BS000253	BS000254	RB021105	RB021164
Date Collected		04/02/2002	11/10/1998	11/10/1998
Depth (ff	0.0-1.0	0.0-1.0	1.0-1.5	0.0-0.5
Exposure Are	·	East Riverbank	East Riverbank	East Riverbank
Analyte				
APP IX SEMIVOLATILES				
1,2,4,5-TETRACHLOROBENZENE	.39 U	.33U	3.9 U	.33U
HEXACHLOROBENZENE	.39 U	.33U	3.9 U	.33U
PENTACHLOROBENZENE	.39 U	.33U	3.9 U	.33U
1,2,4-TRICHLOROBENZENE	.39 U	.33U	3.9 UJ	.33U
1,2-DICHLOROBENZENE	.39 U	.33U	3.9 UJ	.33U
1,3,5-TRINITROBENZENE	.39 U	.33U	3.9 U	.33U
1,3-DICHLOROBENZENE	.39 U	.33U	3.9 U	.33U
1,3-DINITROBENZENE	.39 U	.33U	3.9 U	.33U
1,4-DICHLOROBENZENE	.39 U	.33U	3.9 U	.33U
1,4-NAPHTHOQUINONE	.39 U	.33U	3.9 U	.33U
1-NAPHTHYLAMINE	.39 UJ	.33U	3.9 U	.33U
2,3,4,6-TETRACHLOROPHENOL	.39 U	.33U	3.9 U	.33U
2,4,5-TRICHLOROPHENOL	.98 U	.83U	9.9 UJ	.83U
2,4,6-TRICHLOROPHENOL	.39 U	.33U	3.9 UJ	.33U
2,4-DICHLOROPHENOL	.39 U	.33U	3.9 UJ	.33U
2,4-DIMETHYLPHENOL	R	.33U	3.9 UJ	.33U
2,4-DINITROPHENOL	.98 U	.83U	9.9 U	.83U
2,4-DINITROTOLUENE	.39 U	.33U	3.9 UJ	.33U
2,6-DICHLOROPHENOL	.39 U	.33U	3.9 U	.33U
2,6-DINITROTOLUENE	.39 U	.33U	3.9 U	.33U
2-ACETYLAMINOFLUORENE	.39 U	.33U	3.9 U	.33U
2-CHLORONAPHTHALENE	.39 UJ	.33U	3.9 UJ	.33U
2-CHLOROPHENOL	.39 UJ	.33U	3.9 U	.33U
2-METHYLNAPHTHALENE	.39 U	.33U	-3.9 UJ	.33U
2-METHYLPHENOL (O-CRESOL)	R	.33U	3.9 U	.33U
2-NAPHTHYLAMINE	.39 UJ	.33U	3.9 U	.33U
2-NITROANILINE	.98 U	.83U	9.9 U	.83U
2-NITROPHENOL	.39 U	.33U	3.9 U	.33U
2-PICOLINE (ALPHA-PICOLINE)	.39 U	.33U	3.9 U	.33U
3,3'-DICHLOROBENZIDINE	R	.33U	3.9 U	.33U
3,3'-DIMETHYLBENZIDINE	.39 UJ	.33U	3.9 U	.33U
3-METHYLCHOLANTHRENE	.39 U	.33U	3.9 U	.33U
3-NITROANILINE	.98 UJ	.83U	9.9 U	.83U
4,6-DINITRO-2-METHYLPHENOL	.98 U	.83U	9.9 U	.83U
4-AMINOBIPHENYL	.39 UJ	.33U	3.9 U	.33U
4-BROMOPHENYL PHENYL ETHER	.39 U	.33U	3.9 U	.33U
4-CHLORO-3-METHYLPHENOL	.39 UJ	.33U	3.9 U	.33U

TABLE 4
Appendix IX Semivolatile Results
Post-PCB Remediation

•				
Transect	T110	T110	T110	T116
Location ID	BS000253	BS000254	RB021105	RB021164
Date Collected	04/02/2002	04/02/2002	11/10/1998	11/10/1998
Depth (ft)	0.0-1.0	0.0-1.0	1.0-1.5	0.0-0.5
Exposure Area	East Riverbank	East Riverbank	East Riverbank	East Riverbank
Analyte				
4-CHLOROANILINE	R	.33U	R	33U
4-CHLOROPHENYL PHENYL ETHER	.39 U	.33U	3.9 U	.33U
4-METHYLPHENOL	.39 UJ	.33U	3.9 U	.33U
4-NITROANILINE	.98 UJ	.83U	9.9 UJ	.83U
4-NITROPHENOL	.98 UJ	.83U	9.9 UJ	.83U
4-NITROQUINOLINE-1-OXIDE	R	.33U	R	.33U
5-NITRO-O-TOLUIDINE	.39 U	.33U	3.9 U	.33U
7,12-DIMETHYLBENZ(A)ANTHRACENE	.39 U	.33U	3.9 U	.33U
A,A-DIMETHYLPHENETHYLAMINE	.39 U	.33U	3.9 U	.33U
ACENAPHTHENE	.02 J	.33U	2.9 J	.33U
ACENAPTHYLENE	.034 J	.33U	3,9 UJ	.33U
ACETOPHENONE	.39 U	.33U	3.9 U	.33U
ANILINE	R	.83U	R	.83U
ANTHRACENE	.05 J	.33U	6.2 J	.33U
ARAMITE	R	.33U	3.9 U	.33U
AZOBENZENE	.39 U	.33U	3.9 U	.33U
BENZO(A)ANTHRACENE	.21 J	.33U	13	.33U
BENZO(A)PYRENE	.2 J	.33U	18 J	.33U
BENZO(B)FLUORANTHENE	.29 J	.33U	7.5	.33U
BENZO(GHI)PERYLENE	.12 J	.33U	12	.33U
BENZO(K)FLUORANTHENE	.31 J	.33U	9.9	.33U
BENZYL ALCOHOL	.39 U	.33U	3.9 UJ	.33U
BIS(2-CHLOROETHOXY) METHANE	.39 U	.33U	3.9 U	.33U
BIS(2-CHLOROETHYL) ETHER	.39 U	.33U	3.9 U	.33U
BIS(2-CHLOROISOPROPYL) ETHER	.39 U	.33U	3.9 U	.33U
BIS(2-ETHYLHEXYL) PHTHALATE	.059 J	.33U	3.9 U	.33U
BUTYLBENZYLPHTHALATE	.39 U	.33U	3.9 U	.33U
CHLOROBENZILATE	.39 U	.33U	3.9 U	.33U
CHRYSENE	.28 J	.33U	#13 J	.33U
DIALLATE	.39 U	.33U	3.9 U	.33U
DIBENZO(A,H)ANTHRACENE	.051 J	.33U	2.8 J	.33U
DIBENZOFURAN	.018 J	.33U	3.9 UJ	.33U
DIETHYL PHTHALATE	.39 U	.33U	3.9 U	.33U
DIMETHYL PHTHALATE	.39 U	.33U	3.9 U	.33U
DI-N-BUTYL PHTHALATE	.39 U	.33U	3.9 U	.33U
DI-N-OCTYL PHTHALATE	.39 U	.33U	3.9 U	.33U
DINOSEB	.39 U	.33U	3.9 U	.33U
ETHYL METHANESULFONATE	.39 U	.33U	3.9 U	.33U

TABLE 4
Appendix IX Semivolatile Results
Post-PCB Remediation

•	•			
Transect	T110	T110	T110	T116
Location ID	BS000253	BS000254	RB021105	RB021164
Date Collected	04/02/2002	04/02/2002	11/10/1998	11/10/1998
Depth (ft)	0.0-1.0	0.0-1.0	1.0-1.5	0.0-0.5
Exposure Area	East Riverbank	East Riverbank	East Riverbank	East Riverbank
Analyte				
FLUORANTHENE	.53	.33U	16 J	.33U
FLUORENE	.023 J	.33U	1,3 J	.33U
HEXACHLOROBUTADIENE	.39 U	.33U	3.9 U	.33U
HEXACHLOROCYCLOPENTADIENE	R	.33U	3.9 U	.33U
HEXACHLOROETHANE	.39 U	.33U	3.9 U	.33U
HEXACHLOROPROPENE	.39 U	.33U	3.9 U	.33U
INDENO(1,2,3-C,D)PYRENE	.15 J	.33U	9.6	.33U
ISOPHORONE	.39 U	.33U	3.9 U	.33U
ISOSAFROLE	.39 U	.33U	3,9 U	.33U
METHAPYRILENE	.39 U	.33U	3.9 UJ	.33U
METHYL METHANESULFONATE	.39 U	.33U	3.9 U	.33U
NAPHTHALENE	.034 J	.33U	1.7 J	.33U
NITROBENZENE	.39 U	.33U	3.9 U	.33U
NITROSOMETHYLETHYLAMINE	.39 U	.33U	3.9 U	.33U
N-NITROSODIETHYLAMINE	.39 U	.33U	3.9 U	.33U
N-NITROSODIMETHYLAMINE	.39 UJ	.33U	3.9 U	.33U
N-NITROSO-DI-N-BUTYLAMINE	.39 U	.33U	3.9 U	.33U
N-NITROSO-DI-N-PROPYLAMINE	.39 UJ	.33U	3.9 U	.33U
N-NITROSODIPHENYLAMINE	.39 UJ	.33U	3.9 U	.33U
N-NITROSOMORPHOLINE	.39 U	.33U	3.9 U	.33U
N-NITROSOPIPERIDINE	.39 U	.33U	3.9 U	.33U
N-NITROSOPYRROLIDINE	.39 U	.33U	3.9 U	.33U
O-TOLUIDINE	.39 U	.33U	3.9 U	.33U
P-DIMETHYLAMINOAZOBENZENE	.39 U	.33U	3.9 U	.33U
PENTACHLOROETHANE	.39 U	.33U	3.9 U	.33U
PENTACHLORONITROBENZENE	.39 U	.33U	3.9 U	.33U
PENTACHLOROPHENOL	.98 U	.83U	9.9 U	.83U
PHENACETIN	.39 U	.33U	3.9 U	.33U
PHENANTHRENE	.3 J	.33U	8.7 J	.33U
PHENOL	.39 U	.33U	3.9 U	.33U
P-PHENYLENEDIAMINE	.39 UJ	.33U	3.9 UJ	.33U
PRONAMIDE	.39 U	.33U	3.9 U	.33U
PYRENE	.54	.33U	26	.33U
PYRIDINE	.39 U	.33U	3.9 U	.33U
SAFROLE	.39 U	.33U	3.9 U	.33U

TABLE 5
Appendix IX Semivolatile Constituents Summary
Post-PCB Remediation
(Results are presented in part per million, ppm)

Appendix IX+3 Constituent	Maximum	USEPA Region 9 Residential PRG	Constituent Retained	Arithmetic Average	MCP Method S-2 Standard	Constituent Exceeds Method 1 Standard?
East Riverbank	WAXIIIUIII			<u> </u>		
ACENAPHTHENE	2.9	2600	no			***
ACENAPTHYLENE	0.034	55	no		***	***************************************
ANTHRACENE	6.2	14000	no		***	* 1- 1- 1
BENZO(A)ANTHRACENE	13	0.56	yes	3.4	1.0	yes
BENZO(A)PYRENE	18	0.056	yes	4.6	0.7	yes
BENZO(B)FLUORANTHENE	7.5	0.56	yes	2.0	1.0	yes
BENZO(GHI)PERYLENE	12	55	no			
BENZO(K)FLUORANTHENE	9.9	5.6	yes	2.6	10.0	no
BIS(2-ETHYLHEXYL) PHTHALATE	0.059	32	no			***
CHRYSENE	13	56	no	***		#
DIBENZO(A,H)ANTHRACENE	2.8	0.056	yes	0.8	0.7	yes
DIBENZOFURAN	0.018	210	no			
FLUORANTHENE	16	2000	no			
FLUORENE	1.3	1800	no			
INDENO(1,2,3-C,D)PYRENE	9.6	0.56	yes	2.5	1.0	yes
NAPHTHALENE	1.7	55	no		~~~	
PHENANTHRENE	8.7	55	no			40 M /m
PYRENE	26	1500	no			***
West Riverbank						
1,4-NAPHTHOQUINONE	0.079	0.1*	no			
2-METHYLNAPHTHALENE	0.47	55	no			
4-METHYLPHENOL	0.23	270	no			****
ACENAPHTHENE	0.89	2600	no			***
ACENAPTHYLENE	1.3	55	no		***	##-00-0M
ACETOPHENONE	0.049	0.49	no	***	444	***
ANTHRACENE	3.4	14000	no		***	***
BENZO(A)ANTHRACENE	12	0.56	yes	1.3	1.0	yes
BENZO(A)PYRENE	12	0.056	yes	1.5	0.7	yes
BENZO(B)FLUORANTHENE	16	0.56	yes	1.8	1.0	yes
BENZO(GHI)PERYLENE	3.1	55	no			

# TABLE 5 Appendix IX Semivolatile Constituents Summary Post-PCB Remediation (Results are presented in part per million, ppm)

Appendix IX+3 Constituent	Maximum	USEPA Region 9 Residential PRG	Constituent Retained	Arithmetic Average	MCP Method S-2 Standard	Constituent Exceeds Method 1 Standard?
BENZO(K)FLUORANTHENE	7.3	5.6	yes	0.7	10.0	no
BIS(2-ETHYLHEXYL) PHTHALATE	1.8	32	no			***
BUTYLBENZYLPHTHALATE	0,083	930	no			****
CHRYSENE	11	56	no			****
DIBENZO(A,H)ANTHRACENE	1.9	0.056	yes	0.4	0.7	no
DIBENZOFURAN	1.3	210	no			***
DIETHYL PHTHALATE	0.16	44000	no			move on
DI-N-BUTYL PHTHALATE	0.05	5500	no		w w-w	***
FLUORANTHENE	23	2000	no	***		
FLUOENE	2	1800	no			
INDENO(1,2,3-C,D)PYRENE	3.2	0.56	yes	0.8	1.0	no
NAPHTHALENE	1.4	55	no	90 W. W.	10.40.40	***
PHENANTHRENE	18	55	no		10 to 10	***
PYRENE	25	1500	no			w

#### Notes:

All non-detected PCB results were used at 1/2 detection limit

Duplicate sample results: If both sample results were non-detects, the higher result was used at its full detection limit. If both sample results were detects/hits, the results were averaged. If one sample result was a detect/hit and one a non-detect, the result with the detect/hit was used.

 $<sup>^{\</sup>star}$  - USEPA Region 9 Residential PRG and MCP Method S-2 Standard not available for this constituent, EPA selected 0.1ppm as a PRG

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation

				<del>,</del>			
Transect	T110	T114	T114	T114	T116	T116	T116
Location ID	RB021101	BS000233	BS000234	RB021143	BS000235	BS000235	BS000236
Date Collected	11/16/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002	04/01/2002
Depth (ft)	0.0-0.5	0.0-1.0	2.0-3.0	0.0-0.5	1.0-2.0	1.0-2.0	0.0-1.0
Exposure Area	West Riverbank						
Analyte							
APP IX SEMIVOLATILES							
1,2,4,5-TETRACHLOROBENZENE	.33U	.7 UJ	.38 Ū	.33U	.46 U	.43 U	.44 U
HEXACHLOROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
PENTACHLOROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
1,2,4-TRICHLOROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
1,2-DICHLOROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 UJ
1,3,5-TRINITROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
1,3-DICHLOROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
1,3-DINITROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
1,4-DICHLOROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
1,4-NAPHTHOQUINONE	.33U	.7 U	.38 U	.33U	.061 J	.43 U	.44 U
1-NAPHTHYLAMINE	.33U	.7 U	.38 UJ	.33U	.46 UJ	.43 UJ	.44 UJ
2,3,4,6-TETRACHLOROPHENOL	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
2,4,5-TRICHLOROPHENOL	.83U	1.8 U	.96 U	.83U	1.2 U	1.1 U	1.1 U
2,4,6-TRICHLOROPHENOL	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 UJ
2,4-DICHLOROPHENOL	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
2,4-DIMETHYLPHENOL	.33U	R	R	.33U	R	R	R
2,4-DINITROPHENOL	.83U	1.8 U	.96 U	.83U	1.2 U	1.1 U	1.1 U
2,4-DINITROTOLUENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
2,6-DICHLOROPHENOL	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
2,6-DINITROTOLUENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
2-ACETYLAMINOFLUORENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
2-CHLORONAPHTHALENE	.33U	.7 UJ	.38 UJ	.33U	.46 UJ	.43 UJ	.44 UJ
2-CHLOROPHENOL	.33U	.7 UJ	.38 UJ	.33U	.46 U	.43 U	.44 UJ
2-METHYLNAPHTHALENE	.33U	.7 UJ	.1 J	.33U	.46 U	.43 U	.21 J
2-METHYLPHENOL (O-CRESOL)	.33U	R	R	.33U	.46 UJ	.43 UJ	R
2-NAPHTHYLAMINE	.33U	.7 U	.38 UJ	.33U	.46 UJ	.43 UJ	.44 UJ
2-NITROANILINE	.83U	1.8 U	.96 U	.83U	1.2 U	1.1 U	1.1 U
2-NITROPHENOL	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
2-PICOLINE (ALPHA-PICOLINE)	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
3,3'-DICHLOROBENZIDINE	.33U	R	R	.33U	.46 U	.43 U	R
3,3'-DIMETHYLBENZIDINE	.33U	.7 U	.38 UJ	.33U	.46 UJ	.43 UJ	.44 UJ
3-METHYLCHOLANTHRENE	.33U	.7 UJ	.38 U	.33U	.46 U	.43 U	.44 U
3-NITROANILINE	.83U	1.8 UJ	.96 UJ	.83U	1.2 U	1.1 U	R
4,6-DINITRO-2-METHYLPHENOL	.83U	1.8 U	.96 U	.83U	1.2 U	1.1 U	1.1 U
4-AMINOBIPHENYL	.33U	.7 U	.38 UJ	.33U	.46 UJ	.43 UJ	.44 UJ
4-BROMOPHENYL PHENYL ETHER	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
4-CHLORO-3-METHYLPHENOL	.33U	.7 UJ	.38 UJ	.33U	.46 U	.43 U	.44 U

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation

	(1.10.	saite are proces	parto por				
Transect		T114	T114	T114	T116	T116	T116
Location ID	RB021101	BS000233	BS000234	RB021143	BS000235	BS000235	BS000236
Date Collected	11/16/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002	04/01/2002
Depth (ft)	0.0-0.5	0.0-1.0	2.0-3.0	0.0-0.5	1.0-2.0	1.0-2.0	0.0-1.0
Exposure Area	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank
Analyte							
4-CHLOROANILINE	.33U	R	R	.33U	.46 U	.43 U	R
4-CHLOROPHENYL PHENYL ETHER	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
4-METHYLPHENOL	.33U	.06 J	.38 UJ	.33U	.46 U	.43 U	.44 UJ
4-NITROANILINE	.83U	1.8 UJ	.96 UJ	.83U	1.2 U	1.1 U	R
4-NITROPHENOL	.83U	1.8 U	.96 U	.83U	1.2 UJ	1.1 U	1.1 U
4-NITROQUINOLINE-1-OXIDE	.33U	R	R	.33U	R	R	R
5-NITRO-O-TOLUIDINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
7,12-DIMETHYLBENZ(A)ANTHRACENE	.33U	.7 UJ	.38 U	.33U	.46 U	.43 U	.44 U
A,A-DIMETHYLPHENETHYLAMINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
ACENAPHTHENE	.33U	.7 U	.062 J	.33U	.46 U	.43 U	.062 J
ACENAPTHYLENE	.33U	.44 J	.42 J	.33U	.025 J	.024 J	.16 J
ACETOPHENONE	.33U	.049 J	.045 J	.33U	.46 U	.43 U	.026 J
ANILINE	.83U	R	R	.83U	R	R	R
ANTHRACENE	.33U	.094 J	.26 J	.33U	.041 J	.034 J	.16 J
ARAMITE	.33U	R	R	.33U	R	R	R
AZOBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
BENZO(A)ANTHRACENE	.33U	.072 J	1.9 J	.33U	.14 J	.15 J	.83
BENZO(A)PYRENE	.33U	.053 J	2 J	.33U	.16 J	.15 J	.93
BENZO(B)FLUORANTHENE	.33U	.078 J	2.4	.33U	.16 J	.18 J	1.4 J
BENZO(GHI)PERYLENE	.33U	.7 UJ	.85 J	.33U	.22 J	.29 J	.49
BENZO(K)FLUORANTHENE	.33U	.087 J	.38 U	.33U	.21 J	.25 J	1.2
BENZYL ALCOHOL	.33U	.7 UJ	.38 U	.33U	.46 U	.43 U	.44 U
BIS(2-CHLOROETHOXY) METHANE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
BIS(2-CHLOROETHYL) ETHER	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
BIS(2-CHLOROISOPROPYL) ETHER	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
BIS(2-ETHYLHEXYL) PHTHALATE	.33U	.5 J	.052 J	.33U	.031 J	.023 J	.029 J
BUTYLBENZYLPHTHALATE	.33U	.083 J	.38 U	.33U	.46 U	.43 U	.44 U
CHLOROBENZILATE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
CHRYSENE	.33U	.071 J	2.1 J	.33U	.16 J	.17 J	.94
DIALLATE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
DIBENZO(A,H)ANTHRACENE	.33U	.7 UJ	.72 J	.33U	.043 J	.049 J	.18 J
DIBENZOFURAN	.33U	.7 U	.072 J	.33U	.46 U	.43 U	.059 J
DIETHYL PHTHALATE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
DIMETHYL PHTHALATE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
DI-N-BUTYL PHTHALATE	.33U	.033 J	.38 U	.33U	.46 U	.43 U	.44 U
DI-N-OCTYL PHTHALATE	.33U	.7 UJ	.38 U	.33U	.46 U	.43 U	.44 U
						~~~	
DINOSEB ETHYL METHANESULFONATE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation

(Results are presented in	parts per million, ppm)
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Transect	T110	T114	T114	T114	T116	T116	T116
Location ID	RB021101	BS000233	BS000234	RB021143	BS000235	BS000235	BS000236
Date Collected	11/16/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002	04/01/2002
Depth (ft)	0.0-0.5	0.0-1.0	2.0-3.0	0.0-0.5	1.0-2.0	1.0-2.0	0.0-1.0
Exposure Area		West Riverbank					
Analyte	West Kilerbank	WOOL WOLD WIN					
FLUORANTHENE	.33U	.035 J	2.9 J	.33U	.26 J	.25 J	1.5
FLUORENE	.33U	.7 U	.1 J	.33U	.46 U	.43 U	.088 J
HEXACHLOROBUTADIENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
HEXACHLOROCYCLOPENTADIENE	.33U	R	R	.33U	.46 U	.43 U	R
HEXACHLOROETHANE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
HEXACHLOROPROPENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
INDENO(1,2,3-C,D)PYRENE	.33U	.7 UJ	1.8 J	.33U	.21 J	.27 J	.56
ISOPHORONE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
ISOSAFROLE	.33U	.7 UJ	.38 U	.33U	.46 U	.43 U	.44 U
METHAPYRILENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
METHYL METHANESULFONATE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
NAPHTHALENE	.33U	.7 U	.22 J	.33U	.04 J	.055 J	.26 J
NITROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
NITROSOMETHYLETHYLAMINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
N-NITROSODIETHYLAMINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
N-NITROSODIMETHYLAMINE	.33U	.7 UJ	.38 UJ	.33U	.46 U	.43 U	.44 U
N-NITROSO-DI-N-BUTYLAMINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
N-NITROSO-DI-N-PROPYLAMINE	.33U	.7 UJ	.38 UJ	.33U	.46 U	.43 U	.44 U
N-NITROSODIPHENYLAMINE	.33U	.7 UJ	.38 UJ	.33U	.46 U	.43 U	.44 UJ
N-NITROSOMORPHOLINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
N-NITROSOPIPERIDINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
N-NITROSOPYRROLIDINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
O-TOLUIDINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
P-DIMETHYLAMINOAZOBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
PENTACHLOROETHANE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	,44 U
PENTACHLORONITROBENZENE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
PENTACHLOROPHENOL	.83U	1.8 U	.96 U	.83U	1.2 U	1.1 U	R
PHENACETIN	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
PHENANTHRENE	.33U	.7 U	1.4 J	.33U	.14 J	.14 J	.9
PHENOL	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 UJ
P-PHENYLENEDIAMINE	.33U	.7 UJ	.38 UJ	.33U	.46 UJ	.43 UJ	.44 UJ
PRONAMIDE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U
PYRENE	.33U	.063 J	2.7	.33U	.26 J	.23 J	1.4
PYRIDINE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	R
SAFROLE	.33U	.7 U	.38 U	.33U	.46 U	.43 U	.44 U

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation

					***	77.400	7400
Transect	T116	T116	T118	T118	T118	T120	T120
Location ID	BS000236	RB021162	BS000237	BS000238	RB021183	BS000239	BS000240
Date Collected	04/01/2002	11/12/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002
Depth (ft)		0.0-0.5	2.0-3.0	1.0-2.0	1.0-1.5	0.0-1.0	2.0-3.0
Exposure Area	West Riverbank						
Analyte							
APP IX SEMIVOLATILES							
1,2,4,5-TETRACHLOROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
HEXACHLOROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
PENTACHLOROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1,2,4-TRICHLOROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1,2-DICHLOROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1,3,5-TRINITROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1,3-DICHLOROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1,3-DINITROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1,4-DICHLOROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1,4-NAPHTHOQUINONE	.079 J	.33U	.42 U	.39 U	.33U	.4 U	.38 U
1-NAPHTHYLAMINE	.46 UJ	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
2,3,4,6-TETRACHLOROPHENOL	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 UJ
2.4.5-TRICHLOROPHENOL	1.2 U	.83U	1.1 U	.99 U	.83U	1 U	.95 UJ
2,4,6-TRICHLOROPHENOL	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 UJ
2,4-DICHLOROPHENOL	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 UJ
2,4-DIMETHYLPHENOL	R	.33U	R	R	.33U	R	.38 UJ
2,4-DINITROPHENOL	1.2 U	.83U	1,1 U	.99 U	.83U	1 U	.95 UJ
2,4-DINITROTOLUENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
2,6-DICHLOROPHENOL	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 UJ
2,6-DINITROTOLUENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
2-ACETYLAMINOFLUORENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
2-CHLORONAPHTHALENE	.46 UJ	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
2-CHLOROPHENOL	.46 U	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
2-METHYLNAPHTHALENE	.039 J	.33U	.043 J	.39 U	.33U	.2 J	.38 U
2-METHYLPHENOL (O-CRESOL)	.46 UJ	.33U	R	R	.33U	R	.38 UJ
2-NAPHTHYLAMINE	.46 UJ	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
2-NITROANILINE	1.2 U	.83U	1.1 U	.99 U	.83U	1 U	.95 U
2-NITROPHENOL	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 UJ
2-PICOLINE (ALPHA-PICOLINE)	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
3.3'-DICHLOROBENZIDINE	.46 U	.33U	R	R	.33U	R	.38 U
3,3'-DIMETHYLBENZIDINE	.46 UJ	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
3-METHYLCHOLANTHRENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
3-NITROANILINE	1.2 U	.83U	1.1 UJ	.99 UJ	.83U	1 UJ	.95 U
4,6-DINITRO-2-METHYLPHENOL	1.2 U	.83U	1.1 U	.99 U	.83U	10	.95 UJ
4-AMINOBIPHENYL	.46 UJ	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
4-BROMOPHENYL PHENYL ETHER	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
4-CHLORO-3-METHYLPHENOL	.46 U	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
T-OHLONO-S-MIL HITLEHOL	.400	.330	,4£ UJ	.39 03	.550	1 .7 00	1 .00.00

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation

	(			mmon, ppin,		77.400	7400
Transect	T116	T116	T118	T118	T118	T120	T120
Location ID	BS000236	RB021162	BS000237	BS000238	RB021183	B\$000239	BS000240
Date Collected	04/01/2002	11/12/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002
Depth (ft)	0.0-1.0	0.0-0.5	2.0-3.0	1.0-2.0	1.0-1.5	0.0-1.0	2.0-3.0
Exposure Area	West Riverbank						
Analyte							
4-CHLOROANILINE	.46 U	.33U	R	R	.33U	R	.38 U
4-CHLOROPHENYL PHENYL ETHER	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
4-METHYLPHENOL	.46 U	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
4-NITROANILINE	1.2 U	.83U	1.1 UJ	.99 UJ	.83U	1 UJ	.95 U
4-NITROPHENOL	1.2 U	.83U	1.1 U	.99 U	.83U	1 U	.95 UJ
4-NITROQUINOLINE-1-OXIDE	R	.33U	R	R	.33U	R	R
5-NITRO-O-TOLUIDINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
7,12-DIMETHYLBENZ(A)ANTHRACENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
A,A-DIMETHYLPHENETHYLAMINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
ACENAPHTHENE	.029 J	.33U	.42 U	.39 U	.33U	.15 J	.38 U
ACENAPTHYLENE	.064 J	.33U	.065 J	.39 U	.33U	.42	.055 J
ACETOPHENONE	.026 J	.33U	.42 U	.39 U	.33U	.041 J	.38 U
ANILINE	R	.83U	R	R	.83U	R	.95 UJ
ANTHRACENE	.1 J	.33U	.049 J	.39 U	.33U	.79	.053 J
ARAMITE	R	.33U	R	R	.33U	R	R
AZOBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
BENZO(A)ANTHRACENE	.66	.33U	.24 J	.39 U	.33U	4.7	.52
BENZO(A)PYRENE	.68	.33U	.027 J	.39 U	.33U	5.1 J	.53
BENZO(B)FLUORANTHENE	.91	.33U	.24 J	.39 U	.33U	5.2 J	.77
BENZO(GHI)PERYLENE	.38 J	.33U	.42 U	.39 U	.33U	1.8	.43
BENZO(K)FLUORANTHENE	1.1	.33U	.2 J	.39 U	.33U	.4 U	.72
BENZYL ALCOHOL	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 UJ
BIS(2-CHLOROETHOXY) METHANE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
BIS(2-CHLOROETHYL) ETHER	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
BIS(2-CHLOROISOPROPYL) ETHER	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
BIS(2-ETHYLHEXYL) PHTHALATE	.056 J	.33U	.42 U	.39 U	.33U	.05 J	.02 J
BUTYLBENZYLPHTHALATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
CHLOROBENZILATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
CHRYSENE	.79	.33U	.22 J	.39 U	.33U	4.2	.69
DIALLATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
DIBENZO(A,H)ANTHRACENE	.18 J	.33U	.092 J	.39 U	.33U	1.1	.16 J
DIBENZOFURAN	.048 J	.33U	.42 U	.39 U	.33U	.18 J	.38 U
DIETHYL PHTHALATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
DIMETHYL PHTHALATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
DI-N-BUTYL PHTHALATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
DI-N-OCTYL PHTHALATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
DINOSEB	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
ETHYL METHANESULFONATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
Lancon Community of the State o	1 .700	1	1		1 (222	<u> </u>	

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation
(Results are presented in parts per million, ppm)

Transect	T116	T116	T118	T118	T118	T120	T120
Location ID	BS000236	RB021162	BS000237	BS000238	RB021183	BS000239	BS000240
Date Collected	04/01/2002	11/12/1998	04/01/2002	04/01/2002	11/12/1998	04/01/2002	04/01/2002
Depth (ft)	0.0-1.0	0.0-0.5	2.0-3.0	1.0-2.0	1.0-1.5	0.0-1.0	2.0-3.0
Exposure Area	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank
Analyte	VVCSCTRIVCIDATIK	TTOOL TRITOLDALIIK					
FLUORANTHENE	1.2	.33U	.34 J	.39 U	.33U	5.4	1.1
FLUORENE	.034 J	.33U	.42 U	.39 U	.33U	.22 J	.022 J
HEXACHLOROBUTADIENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
HEXACHLOROCYCLOPENTADIENE	.46 U	.33U	R	R	.33U	R	.38 U
HEXACHLOROETHANE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
HEXACHLOROPROPENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
INDENO(1,2,3-C,D)PYRENE	.5	.33U	.045 J	.39 U	.33U	2.1	.47
ISOPHORONE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
ISOSAFROLE	.46 U	.33U	.42 U	.39 U	.33U	,4 U	.38 U
METHAPYRILENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
METHYL METHANESULFONATE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
NAPHTHALENE	.14 J	.33U	.095 J	.39 U	.33U	.44	.069 J
NITROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
NITROSOMETHYLETHYLAMINE	.46 U	.33U	.42 U	.39 UJ	.33U	.4 U	.38 U
N-NITROSODIETHYLAMINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
N-NITROSODIMETHYLAMINE	.46 U	.33U	.42 UJ	.39 U	.33U	.4 UJ	.38 U
N-NITROSO-DI-N-BUTYLAMINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
N-NITROSO-DI-N-PROPYLAMINE	.46 U	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 U
N-NITROSODIPHENYLAMINE	.46 U	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 U
N-NITROSOMORPHOLINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
N-NITROSOPIPERIDINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
N-NITROSOPYRROLIDINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
O-TOLUIDINE	.46 U	.33U	.42 U	.39 U	.33U	,4 U	.38 U
P-DIMETHYLAMINOAZOBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
PENTACHLOROETHANE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
PENTACHLORONITROBENZENE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
PENTACHLOROPHENOL	1.2 U	.83U	1.1 U	.99 U	.83U	1 U	.95 UJ
PHENACETIN	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
PHENANTHRENE	.56	.33U	.22 J	.39 U	.33U	3	.41
PHENOL	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 UJ
P-PHENYLENEDIAMINE	.46 UJ	.33U	.42 UJ	.39 UJ	.33U	.4 UJ	.38 UJ
PRONAMIDE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
PYRENE	1	.33U	.1 J	.39 U	.33U	8.3 J	.9
PYRIDINE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U
SAFROLE	.46 U	.33U	.42 U	.39 U	.33U	.4 U	.38 U

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation

	(1/6:	suits are preser	iteu in parts per	minon, ppin,			
Transect	T120	T122	T122	T122	T122	T124	T124
Location ID	RB021202	BS000241	BS000242	RB021221	RB021222	BS000243	BS000244
Date Collected	11/12/1998	04/01/2002	04/01/2002	11/12/1998	06/13/2000	04/01/2002	04/01/2002
Depth (ft)	1.0-1.5	1.0-2.0	0.0-1.0	0.0-0.5	4.0-4.5	2.0-3.0	1.0-2.0
Exposure Area	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank
Analyte							
APP IX SEMIVOLATILES							
1,2,4,5-TETRACHLOROBENZENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
HEXACHLOROBENZENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
PENTACHLOROBENZENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
1,2,4-TRICHLOROBENZENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
1,2-DICHLOROBENZENE	.33U	.41 U	.33U	.33U	.38 UJ	.36 U	.33U
1,3,5-TRINITROBENZENE	.33U	.41 U	.33U	.33U	.38 UJ	.36 U	.33U
1,3-DICHLOROBENZENE	.33U	.41 U	.33U	.33U	.38 UJ	.36 U	.33U
1,3-DINITROBENZENE	,33U	.41 U	.33U	.33U	.38 UJ	.36 U	.33U
1,4-DICHLOROBENZENE	.33U	.41 U	.33U	.33U	.38 UJ	.36 U	.33U
1,4-NAPHTHOQUINONE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
1-NAPHTHYLAMINE	.33U	.41 UJ	.33U	.33U	.38 U	.36 U	.33U
2,3,4,6-TETRACHLOROPHENOL	.33U	.41 U	.33U	.33U	.38 UJ	.36 U	.33U
2,4,5-TRICHLOROPHENOL	.83U	1 U	.83U	.83U	.95 U	.9 U	.83U
2,4,6-TRICHLOROPHENOL	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
2,4-DICHLOROPHENOL	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
2,4-DIMETHYLPHENOL	.33U	R	.33U	.33U	.38 U	R	.33U
2,4-DINITROPHENOL	.83U	1 U	.83U	.83U	.95 UJ	.9 U	.83U
2,4-DINITROTOLUENE	.33U	.41 U	.33U	.33U	.38 UJ	.36 U	.33U
2,6-DICHLOROPHENOL	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
2,6-DINITROTOLUENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
2-ACETYLAMINOFLUORENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
2-CHLORONAPHTHALENE	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.33U
2-CHLOROPHENOL	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.33U
2-METHYLNAPHTHALENE	.33U	.045 J	.33U	.33U	.073 J	.066 J	.33U
2-METHYLPHENOL (O-CRESOL)	.33U	R	.33U	.33U	.38 U	R	.33U
2-NAPHTHYLAMINE	.33U	.41 UJ	.33U	.33U	.38 U	.36 U	.33U
2-NITROANILINE	.83U	1 U	.83U	.83U	.95 U	.9 U	.83U
2-NITROPHENOL	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
2-PICOLINE (ALPHA-PICOLINE)	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
3,3'-DICHLOROBENZIDINE	.33U	R	.33U	.33U	.38 U	R	.33U
3,3'-DIMETHYLBENZIDINE	.33U	.41 UJ	.33U	.33U	.38 U	.36 U	.33U
3-METHYLCHOLANTHRENE	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.33U
3-NITROANILINE	.83U	1 UJ	.83U	.83U	.95 U	.9 UJ	.83U
4,6-DINITRO-2-METHYLPHENOL	.83U	1 U	.83U	.83U	.95 U	.9 U	.83U
4-AMINOBIPHENYL	.33U	.41 UJ	.33U	.33U	.38 UJ	.36 U	.33U
4-BROMOPHENYL PHENYL ETHER	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
4-CHLORO-3-METHYLPHENOL				,			

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation

				T122	T124	T124
						BS000244
						04/01/2002
						1.0-2.0
						West Riverbank
West Riverbank	West Riverbank	West Riverbank	West Riverbank	vvest Riverbank	VVEST RIVEIDANK	VVCSt MVCtbank
			0011	2011	D	.33U
					<u> </u>	.33U
						.33U
						.83U
		<u> </u>				.83U
					1	.33U
			<u> </u>		1	.33U
						.33U
						.33U
.33U				<u> </u>		.33U
						.33U
				<u> </u>		.33U
.83U				<u> </u>		.83U
						.33U
				<u> </u>	<u> </u>	.33U
.33U						.33U
.33U				I		.33U
.33U				1		.33U
.33U						.33U
.33U	I					.33U
.33U	1.2 J					.33U
.33U	.41 U					.33U
.33U	.41 U					.33U
.33U	.41 U					.33U
.33U	.41 U	.33U				.33U
.33U	.052 J	.33U				.33U
.33U	.41 U					.33U
.33U	.41 U	.33U	.33U			.33U
.33U	1.4	.33U	.33U			.33U
.33U	.41 U	.33U	.33U			.33U
.33U	.83 J	.33U	.33U	.14 J		.33U
.33U	.052 J	.33U	.33U	.1 J		.33U
.33U	.41 U	.33U	.33U	.38 U		.33U
.33U	.41 U	.33U	.33U	.38 U		.33U
.33U	.41 U	.33U	.33U	.38 U		.33U
.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.33U
.33U	.41 U	.33U	.33U	.38 U		.33U
.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
	T120 RB021202 11/12/1998 1.0-1.5 West Riverbank  .33U .33U .33U .33U .33U .33U .33U .3	T120 T122 RB021202 BS000241 11/12/1998 04/01/2002 1.0-1.5 1.0-2.0 West Riverbank West Riverbank  .33U R .33U .41 U	T120         T122         T122           RB021202         BS000241         BS000242           11/12/1998         04/01/2002         04/01/2002           1 0-1.5         1.0-2.0         0.0-1.0           West Riverbank         West Riverbank         West Riverbank           .33U         R         .33U           .33U         .41 U         .33U           .83U         1 UJ         .83U           .83U         1 UJ         .83U           .83U         1 U         .83U           .33U         .81 U         .33U           .33U         .41 U         .33U           .33U         .83 U         .83U           .83U         R         .83U           .83U         R         .83U           .33U         .23 J         .33U           .33U         .41 U         .33U           .33U         .41 U         .33U           .33U         .24 J         .33U           <	T120         T122         T122         T122         RB021202         BS000241         BS000242         RB021221           11/12/1998         04/01/2002         04/01/2002         11/12/1998         1.0-1.5         1.0-2.0         0.0-1.0         0.0-0.5           West Riverbank         West Riverbank         West Riverbank         West Riverbank         West Riverbank           .33U         R         .33U         .33U         .33U           .33U         .41 U         .33U         .33U           .83U         1 UJ         .83U         .83U           .83U         1 U         .83U         .83U           .33U         .41 U         .33U         .33U           .33U         .83U         .83U         .83U      <	T120	RE021202   BS000241   BS000242   RE021221   RE021222   BS000243     RE021202   BS000241   BS000242   RE021221   RE021222   BS000243     RE021202   AURIT   A

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation
(Results are presented in parts per million, ppm)

		Juito are preser		=100	T400	T124	T124
Transect	T120	T122	T122	T122	T122	BS000243	BS000244
Location ID	RB021202	BS000241	BS000242	RB021221	RB021222	04/01/2002	04/01/2002
Date Collected	11/12/1998	04/01/2002	04/01/2002	11/12/1998	06/13/2000		1.0-2.0
Depth (ft)	1.0-1.5	1.0-2.0	0.0-1.0	0.0-0.5	4.0-4.5	2.0-3.0	West Riverbank
Exposure Area	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	vvest raverbank
Analyte							0011
FLUORANTHENE	.33U	1.8	.33U	.33U	1.4	5.3	.33U
FLUORENE	.33U	.41 U	.33U	.33U	.17 J	.2 J	.33U
HEXACHLOROBUTADIENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
HEXACHLOROCYCLOPENTADIENE	.33U	R	.33U	.33U	.38 UJ	R	.33U
HEXACHLOROETHANE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
HEXACHLOROPROPENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
INDENO(1,2,3-C,D)PYRENE	.33U	1.8 J	.33U	.33U	.35 J	2.2 J	.33U
ISOPHORONE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
ISOSAFROLE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
METHAPYRILENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
METHYL METHANESULFONATE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
NAPHTHALENE	.33U	.12 J	.33U	.33U	.22 J	.18 J	.33U
NITROBENZENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
NITROSOMETHYLETHYLAMINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
N-NITROSODIETHYLAMINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
N-NITROSODIMETHYLAMINE	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.33U
N-NITROSO-DI-N-BUTYLAMINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
N-NITROSO-DI-N-PROPYLAMINE	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.33U
N-NITROSODIPHENYLAMINE	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.33U
N-NITROSOMORPHOLINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
N-NITROSOPIPERIDINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
N-NITROSOPYRROLIDINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
O-TOLUIDINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
P-DIMETHYLAMINOAZOBENZENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
PENTACHLOROETHANE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
PENTACHLORONITROBENZENE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
PENTACHLOROPHENOL	.83U	1 U	.83U	.83U	R	.9 U	.83U
PHENACETIN	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
PHENANTHRENE	.33U	1	.33U	.33U	.79	1.9	.33U
PHENOL	.33U	.41 U	.33U	.33U	.38 U	.36 U	,33U
P-PHENYLENEDIAMINE	.33U	.41 UJ	.33U	.33U	.38 U	.36 UJ	.33U
PRONAMIDE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
PYRENE	.33U	2.8	.33U	.33U	1.3	5.2	.33U
PYRIDINE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U
SAFROLE	.33U	.41 U	.33U	.33U	.38 U	.36 U	.33U

U - Non-detects UJ - Non-detects at estimated value J - Detect at estimated value R - Rejected value

10/28/2003

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation

Transect	T126	T126	T126	T128	T128	T128	T130
Location ID	BS000245	BS000246	RB021263	BS000247	BS000248	RB021282	RB021301
Date Collected	04/01/2002	04/01/2002	11/11/1998	04/01/2002	04/01/2002	11/11/1998	11/10/1998
Depth (ft)		2.0-3.0	1.0-1.5	1.0-2.0	0.0-1.0	1.0-1.5	0.0-0.5
Exposure Area		West Riverbank					
Analyte	Wood Parolibaria						
APP IX SEMIVOLATILES							
1.2.4.5-TETRACHLOROBENZENE	.45 U	.39 U	.33U	33U	.33U	.33U	.33U
HEXACHLOROBENZENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
PENTACHLOROBENZENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
1,2,4-TRICHLOROBENZENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
1.2-DICHLOROBENZENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
1,3,5-TRINITROBENZENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
1.3-DICHLOROBENZENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
1,3-DINITROBENZENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
1,4-DICHLOROBENZENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
1,4-NAPHTHOQUINONE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
1-NAPHTHYLAMINE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
2,3,4,6-TETRACHLOROPHENOL	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
2,4,5-TRICHLOROPHENOL	1.1 UJ	.99 UJ	.83U	.83U	.83U	.83U	.83U
2.4.6-TRICHLOROPHENOL	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
2,4-DICHLOROPHENOL	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
2,4-DIMETHYLPHENOL	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
2.4-DINITROPHENOL	1.1 UJ	.99 UJ	.83U	.83U	.83U	.83U	.83U
2,4-DINITROTOLUENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
2,6-DICHLOROPHENOL	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
2,6-DINITROTOLUENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
2-ACETYLAMINOFLUORENE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
2-CHLORONAPHTHALENE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
2-CHLOROPHENOL	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
2-METHYLNAPHTHALENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
2-METHYLPHENOL (O-CRESOL)	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
2-NAPHTHYLAMINE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
2-NITROANILINE	1.1 UJ	.99 U	.83U	.83U	.83U	.83U	.83U
2-NITROPHENOL	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
2-PICOLINE (ALPHA-PICOLINE)	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
3,3'-DICHLOROBENZIDINE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
3,3'-DIMETHYLBENZIDINE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
3-METHYLCHOLANTHRENE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
3-NITROANILINE	1.1 UJ	.99 UJ	.83U	.83U	.83U	.83U	.83U
4,6-DINITRO-2-METHYLPHENOL	1.1 UJ	.99 UJ	.83U	.83U	.83U	.83U	.83U
4-AMINOBIPHENYL	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
4-BROMOPHENYL PHENYL ETHER	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
4-CHLORO-3-METHYLPHENOL	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation

			itou iii puito poi	<del></del>	7100	7400	T420
Transect	T126	T126	T126	T128	T128	T128	T130
Location ID	BS000245	BS000246	RB021263	BS000247	BS000248	RB021282	RB021301 11/10/1998
Date Collected	04/01/2002	04/01/2002	11/11/1998	04/01/2002	04/01/2002	11/11/1998	0.0-0.5
Depth (ft)	0.0-1.0	2.0-3.0	1.0-1.5	1.0-2.0	0.0-1.0	1.0-1.5	
Exposure Area	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank	West Riverbank
Analyte							0017
4-CHLOROANILINE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
4-CHLOROPHENYL PHENYL ETHER	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
4-METHYLPHENOL	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
4-NITROANILINE	1.1 UJ	.99 UJ	.83U	.83U	.83U	.83U	.83U
4-NITROPHENOL	1.1 UJ	.99 U	.83U	.83U	.83U	.83U	.83U
4-NITROQUINOLINE-1-OXIDE	R	R	.33U	.33U	.33U	.33U	.33U
5-NITRO-O-TOLUIDINE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
7,12-DIMETHYLBENZ(A)ANTHRACENE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
A,A-DIMETHYLPHENETHYLAMINE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
ACENAPHTHENE	.04 J	.39 U	.33U	.33U	.33U	.33U	.33U
ACENAPTHYLENE	.087 J	.037 J	.33U	.33U	.33U	.33U	.33U
ACETOPHENONE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
ANILINE	1.1 UJ	.99 UJ	.83U	.83U	.83U	.83U	.83U
ANTHRACENE	.17 J	.061 J	.33U	.33U	.33U	.33U	.33U
ARAMITE	R	R	.33U	.33U	.33U	.33U	.33U
AZOBENZENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
BENZO(A)ANTHRACENE	.89 J	.21 J	.33U	.33U	.33U	.33U	.33U
BENZO(A)PYRENE	1.2 J	.96 J	.33U	.33U	.33U	.33U	.33U
BENZO(B)FLUORANTHENE	1.6 J	.72 J	.33U	.33U	.33U	.33U	.33U
BENZO(GHI)PERYLENE	.45 J	3.1 J	.33U	.33U	.33U	.33U	.33U
BENZO(K)FLUORANTHENE	1.8 J	.59 J	.33U	.33U	.33U	.33U	.33U
BENZYL ÁLCOHOL	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
BIS(2-CHLOROETHOXY) METHANE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
BIS(2-CHLOROETHYL) ÉTHER	.45 UJ	.39 U	.33U	.33U	.33U	,33U	.33U
BIS(2-CHLOROISOPROPYL) ETHER	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
BIS(2-ETHYLHEXYL) PHTHALATE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
BUTYLBENZYLPHTHALATE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
CHLOROBENZILATE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
CHRYSENE	.91 J	.28 J	.33U	.33U	.33U	.33U	.33U
DIALLATE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
DIBENZO(A,H)ANTHRACENE	.12 J	1.6 J	.33U	.33U	.33U	.33U	.33U
DIBENZOFURAN	.036 J	.39 U	.33U	.33U	.33U	.33U	.33U
DIETHYL PHTHALATE	.16 J	.39 U	.33U	.33U	.33U	.33U	.33U
DIMETHYL PHTHALATE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
DI-N-BUTYL PHTHALATE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
DI-N-OCTYL PHTHALATE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
DINOSEB	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
ETHYL METHANESULFONATE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
LITTL METHANEOULFUNATE	<u>.45 UJ</u>		.330			1 .330	

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation

Transact							
Transect	T126	T126	T126	T128	T128	T128	RB021301
Location ID	BS000245	BS000246	RB021263	BS000247	BS000248	RB021282	
Date Collected	04/01/2002	04/01/2002	11/11/1998	04/01/2002	04/01/2002	11/11/1998	11/10/1998
Depth (ft)	0.0-1.0	2.0-3.0	1.0-1.5	1.0-2.0	0.0-1.0	1.0-1.5	0.0-0.5
Exposure Area	West Riverbank						
Analyte						601	0011
FLUORANTHENE	1.4 J	.26 J	.33U	.33U	.33U	.33U	.33U
FLUORENE	.043 J	.39 U	.33U	.33U	.33U	.33U	.33U
HEXACHLOROBUTADIENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
HEXACHLOROCYCLOPENTADIENE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
HEXACHLOROETHANE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
HEXACHLOROPROPENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
INDENO(1,2,3-C,D)PYRENE	.52 J	3.1 J	.33U	.33U	.33U	.33U	.33U
ISOPHORONE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
ISOSAFROLE	.45 UJ	.39 U	.33U_	.33U	.33U	.33U	.33U
METHAPYRILENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
METHYL METHANESULFONATE	.45 UJ	.39 U	.33U_	.33U	.33U	.33U	.33U
NAPHTHALENE	.096 J	.026 J	.33U	.33U	.33U	.33U	.33U
NITROBENZENE	.45 UJ	.39 U	.33U	33Ū	.33U	.33U	.33U
NITROSOMETHYLETHYLAMINE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
N-NITROSODIETHYLAMINE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
N-NITROSODIMETHYLAMINE	.45 UJ	.39 UJ	.33U	.33Ū	.33U	.33U	.33U
N-NITROSO-DI-N-BUTYLAMINE	.45 UJ	.39 U	.33U	.33Ū	.33U	.33U	.33U
N-NITROSO-DI-N-PROPYLAMINE	.45 UJ	.39 UJ	.33U	33Ū	.33U	.33U	.33U
N-NITROSODIPHENYLAMINE	.45 UJ	.39 UJ	.33U	33U	.33U	.33U	.33U
N-NITROSOMORPHOLINE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
N-NITROSOPIPERIDINE	.45 UJ	.39 U	.33U	.33Ü	.33U	.33U	.33U
N-NITROSOPYRROLIDINE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
O-TOLUIDINE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
P-DIMETHYLAMINOAZOBENZENE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
PENTACHLOROETHANE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
PENTACHLORONITROBENZENE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
PENTACHLOROPHENOL	1.1 UJ	.99 UJ	.83U	.83U	.83U	.83U	.83U
PHENACETIN	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
PHENANTHRENE	.64 J	.13 J	.33U	.33U	.33U	.33U	.33U
PHENOL	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
P-PHENYLENEDIAMINE	.45 UJ	.39 UJ	.33U	.33U	.33U	.33U	.33U
PRONAMIDE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
PYRENE	1.8 J	.47 J	.33U	.33U	.33U	.33U	.33U
PYRIDINE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U
SAFROLE	.45 UJ	.39 U	.33U	.33U	.33U	.33U	.33U

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation

(Results are presented in parts per million, ppm)

(	- b		, , ,	
Transect	T110	T110	T110	T116
Location ID	BS000253	BS000254	RB021105	RB021164
Date Collected		04/02/2002	11/10/1998	11/10/1998
Depth (ft)	0.0-1.0	0.0-1.0	1.0-1.5	0.0-0.5
Exposure Area		East Riverbank	East Riverbank	East Riverbank
Analyte				
APP IX SEMIVOLATILES				
1,2,4,5-TETRACHLOROBENZENE	.39 U	.33U	.33U	.33U
HEXACHLOROBENZENE	.39 U	.33U	.33U	.33U
PENTACHLOROBENZENE	.39 U	.33U	.33U	.33U
1,2,4-TRICHLOROBENZENE	.39 U	.33U	.33U	.33U
1,2-DICHLOROBENZENE	.39 U	.33U	.33U	.33U
1,3,5-TRINITROBENZENE	.39 U	.33U	.33U	.33U
1,3-DICHLOROBENZENE	.39 U	.33U	.33U	.33U
1,3-DINITROBENZENE	.39 U	.33U	.33U	.33U
1,4-DICHLOROBENZENE	.39 U	.33U	.33U	.33U
1,4-NAPHTHOQUINONE	.39 U	.33U	.33U	.33U
1-NAPHTHYLAMINE	.39 UJ	.33U	.33U	.33U
2,3,4,6-TETRACHLOROPHENOL	.39 U	.33U	.33U	.33U
2,4,5-TRICHLOROPHENOL	.98 U	.83U	.83U	.83U
2,4,6-TRICHLOROPHENOL	.39 U	.33U	.33U	.33U
2,4-DICHLOROPHENOL	.39 U	.33U	.33U	.33U
2,4-DIMETHYLPHENOL	R	.33U	.33U	.33U
2,4-DINITROPHENOL	.98 U	.83U	.83U	.83U
2,4-DINITROTOLUENE	.39 U	.33U	.33U	.33U
2,6-DICHLOROPHENOL	.39 U	.33U	.33U	.33U
2,6-DINITROTOLUENE	.39 U	.33U	.33U	.33U
2-ACETYLAMINOFLUORENE	.39 U	.33U	.33U	.33U
2-CHLORONAPHTHALENE	.39 UJ	.33U	.33U	.33U
2-CHLOROPHENOL	.39 UJ	.33U	.33U	.33U
2-METHYLNAPHTHALENE	.39 U	.33U	.33U	.33U
2-METHYLPHENOL (O-CRESOL)	R	.33U	.33U	.33U
2-NAPHTHYLAMINE	.39 UJ	.33U	.33U	.33U
2-NITROANILINE	.98 U	.83U	.83U	.83U
2-NITROPHENOL	.39 U	.33U	.33U	.33U
2-PICOLINE (ALPHA-PICOLINE)	.39 U	.33U	.33U	.33U
3,3'-DICHLOROBENZIDINE	R	.33U	.33U	.33U
3,3'-DIMETHYLBENZIDINE	.39 UJ	.33U	.33U	.33U
3-METHYLCHOLANTHRENE	.39 U	.33U	.33U	.33U
3-NITROANILINE	.98 UJ	.83U	.83U	.83U
4,6-DINITRO-2-METHYLPHENOL	.98 U	.83U	.83U	.83U
4-AMINOBIPHENYL	.39 UJ	.33U	.33U	.33U
4-BROMOPHENYL PHENYL ETHER	.39 U	.33U	.33U	.33U
4-CHLORO-3-METHYLPHENOL	.39 UJ	.33U	.33U	.33U

U - Non-detects UJ - Non-detects at estimated value J - Detect at estimated value R - Rejected value

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation

(Results are presented in parts per million, ppm)

Transect	T110	T110	T110	T116
Location ID	BS000253	BS000254	RB021105	RB021164
Date Collected	04/02/2002	04/02/2002	11/10/1998	11/10/1998
Depth (ft)	0.0-1.0	0.0-1.0	1.0-1.5	0.0-0.5
Exposure Area	East Riverbank	East Riverbank	East Riverbank	East Riverbank
Analyte				
4-CHLOROANILINE	R	.33U	.33U	.33U
4-CHLOROPHENYL PHENYL ETHER	.39 U	.33U	.33U	.33U
4-METHYLPHENOL	.39 UJ	.33U	.33U	.33U
4-NITROANILINE	.98 UJ	.83U	.83U	.83U
4-NITROPHENOL	.98 UJ	.83U	.83U	.83U
4-NITROQUINOLINE-1-OXIDE	R	.33U	.33U	.33U
5-NITRO-O-TOLUIDINE	.39 U	.33U	.33U	.33U
7,12-DIMETHYLBENZ(A)ANTHRACENE	.39 U	.33U	.33U	.33U
A,A-DIMETHYLPHENETHYLAMINE	.39 U	.33U	.33U	.33U
ACENAPHTHENE	.02 J	.33U	.33U	.33U
ACENAPTHYLENE	.034 J	.33U	.33U	.33U
ACETOPHENONE	.39 U	.33U	.33U	.33U
ANILINE	R	.83U	.83U	.83U
ANTHRACENE	.05 J	.33U	.33U	.33U
ARAMITE	R	.33U	.33U	.33U
AZOBENZENE	.39 U	.33U	.33U	.33U
BENZO(A)ANTHRACENE	.21 J	.33U	.33U	.33U
BENZO(A)PYRENE	.2 J	.33U	.33U	.33U
BENZO(B)FLUORANTHENE	.29 J	.33U	.33U	.33U
BENZO(GHI)PERYLENE	.12 J	.33U	.33U	.33U
BENZO(K)FLUORANTHENE	.31 J	.33U	.33U	.33U
BENZYL ALCOHOL	.39 U	.33U	.33U	.33U
BIS(2-CHLOROETHOXY) METHANE	.39 U	.33U	.33U	.33U
BIS(2-CHLOROETHYL) ETHER	.39 U	.33U	.33U	.33U
BIS(2-CHLOROISOPROPYL) ETHER	.39 U	.33U	.33U	.33U
BIS(2-ETHYLHEXYL) PHTHALATE	.059 J	.33U	.33U	.33U
BUTYLBENZYLPHTHALATE	.39 U	.33U	.33U	.33U
CHLOROBENZILATE	.39 U	.33U	.33U	.33U
CHRYSENE	.28 J	.33U	.33U	.33U
DIALLATE	.39 U	.33U	.33U	.33U
DIBENZO(A,H)ANTHRACENE	.051 J	.33U	.33U	.33U
DIBENZOFURAN	.018 J	.33U	.33U	.33U
DIETHYL PHTHALATE	.39 U	.33U	.33U	.33U
DIMETHYL PHTHALATE	.39 U	.33U	.33U	.33U
DI-N-BUTYL PHTHALATE	.39 U	.33U	.33U	.33U
DI-N-OCTYL PHTHALATE	.39 U	.33U	.33U	.33U
DINOSEB	.39 U	.33U	.33U	.33U
ETHYL METHANESULFONATE	.39 U	.33U	.33U	.33U

U - Non-detects UJ - Non-detects at estimated value J - Detect at estimated value R - Rejected value

TABLE 6
Appendix IX Semivolatile Results
Post-PCB and SVOC Remediation

(Results are presented in parts per million, ppm)

(			<u> </u>	
Transect	T110	T110	T110	T116
Location ID	BS000253	BS000254	RB021105	RB021164
Date Collected	04/02/2002	04/02/2002	11/10/1998	11/10/1998
Depth (ft)	0.0-1.0	0.0-1.0	1.0-1.5	0.0-0.5
Exposure Area	East Riverbank	East Riverbank	East Riverbank	East Riverbank
Analyte				
FLUORANTHENE	.53	.33U	.33U	.33U
FLUORENE	.023 J	.33U	.33U	.33U
HEXACHLOROBUTADIENE	.39 U	.33U	.33U	.33U
HEXACHLOROCYCLOPENTADIENE	R	.33U	.33U	.33U
HEXACHLOROETHANE	.39 U	.33U	.33U	.33U
HEXACHLOROPROPENE	.39 U	.33U	.33U	.33U
INDENO(1,2,3-C,D)PYRENE	.15 J	.33U	.33U	.33U
ISOPHORONE	.39 U	.33U	.33U	.33U
ISOSAFROLE	.39 U	.33U	.33U	.33U
METHAPYRILENE	.39 U	.33U	.33U	.33U
METHYL METHANESULFONATE	.39 U	.33U	.33U	.33U
NAPHTHALENE	.034 J	.33U	.33U	.33U
NITROBENZENE	.39 U	.33U	.33U	.33U
NITROSOMETHYLETHYLAMINE	.39 U	.33U	.33U	.33U
N-NITROSODIETHYLAMINE	.39 U	.33U	.33U	.33U
N-NITROSODIMETHYLAMINE	.39 UJ	.33U	.33U	.33U
N-NITROSO-DI-N-BUTYLAMINE	.39 U	.33U	.33U	.33U
N-NITROSO-DI-N-PROPYLAMINE	.39 UJ	.33U	.33U	.33U
N-NITROSODIPHENYLAMINE	.39 UJ	.33U	.33U	.33U
N-NITROSOMORPHOLINE	.39 U	.33U	.33U	.33U
N-NITROSOPIPERIDINE	.39 U	.33U	.33U	.33U
N-NITROSOPYRROLIDINE	.39 U	.33U	.33U	.33U
O-TOLUIDINE	.39 U	.33U	.33U	.33U
P-DIMETHYLAMINOAZOBENZENE	.39 U	.33U	.33U	.33U
PENTACHLOROETHANE	.39 U	.33U	.33U	.33U
PENTACHLORONITROBENZENE	.39 U	.33U	.33U	.33U
PENTACHLOROPHENOL	.98 U	.83U	.83U	.83U
PHENACETIN	.39 U	.33U	.33U	.33U
PHENANTHRENE	.3 J	.33U	.33U	.33U
PHENOL	.39 U	.33U	.33U	.33U
P-PHENYLENEDIAMINE	.39 UJ	.33U	.33U	.33U
PRONAMIDE	.39 U	.33U	.33U	.33U
PYRENE	.54	.33U	.33U	.33U
PYRIDINE	.39 U	.33U	.33U	.33U
SAFROLE	.39 U	.33U	.33U	.33U

U - Non-detects UJ - Non-detects at estimated value J - Detect at estimated value R - Rejected value

TABLE 7
Appendix IX Semivolatile Constituents Summary
Post-PCB and SVOC Remediation
(Results are presented in part per million, ppm)

Appendix IX+3 Constituent East Riverbank	Maximum	USEPA Region 9 Residential PRG	Constituent Retained	Arithmetic Average	MCP Method S-2 Standard	Constituent Exceeds Method 1 Standard?
BENZO(A)ANTHRACENE	0.21	0.56	no	26 50 50	***	pak win win
BENZO(A)PYRENE	0.20	0.056	yes	0.2	0.7	no
BENZO(B)FLUORANTHENE	0.29	0.56	no		***	# W.N
DIBENZO(A,H)ANTHRACENE	0.051	0.056	no			***
INDENO(1,2,3-C,D)PYRENE	0.15	0.56	no			Mary and Alle.
West Riverbank						
BENZO(A)ANTHRACENE	4.7	0,56	yes	0.7	1.0	no
BENZO(A)PYRENE	5.1	0.056	yes	0.7	0.7	no
BENZO(B)FLUORANTHENE	6.3	0.56	yes	0.9	1.0	no

#### Notes:

All non-detected PCB results were used at 1/2 detection limit

Duplicate sample results: If both sample results were non-detects, the higher result was used at its full detection limit. If both sample results were detects/hits,

the results were averaged. If one sample result was a detect/hit and one a non-detect, the result with the detect/hit was used.

Attachment A

#### Pro UCL Software Printouts Zone 1 Low Bank 0-3ft depth

Summary Statistics for	Zone 1 Low 0-3	Summary Statistics for	In(Zone 1 Low 0-3)
Number of Samples	9	Minimum	-1.77196
Minimum	0.17	Maximum	3.091042
Maximum	22	Mean	0.014833
Mean	3.40222222	Standard Deviation	1.498769
Median	0.79	Variance	2.24631
Standard Deviation	7.049666265		
Variance	49.69779444	Shapiro-Wilk Test Statisitic	0.936861
Coefficient of Variation	2.072076956	Shapiro-Wilk 5% Critical Value	0.829
Skewness	2.882695546	Data are Lognormal at 5% Signi	ficance Level
95 % UCL (Assuming	ı Normal Data)	Estimates Assuming Lognormal	Distribution
Student's-t	7.771953225	MLE Mean	3.120484
		MLE Standard Deviation	9.072397
95 % UCL (Adjusted	for Skewness)	MLE Coefficient of Variation	2.907368
Adjusted-CLT	9.680155907	MLE Skewness	33.29748
Modified-t	8.148287327	MLE Median	1.014944
		MLE 80% Quantile	3.601295
95 % Non-parametric	UCL	MLE 90% Quantile	6.963986
CLT	7.267445266	MLE 95% Quantile	11.94496
Jackknife	7.771953225	MLE 99% Quantile	33.14762
Standard Bootstrap	6.97391291		
Bootstrap-t	37.12859197	MVU Estimate of Median	0.894434
Chebyshev (Mean, Std)	13.64514983	MVU Estimate of Mean	2.536827
		MVU Estimate of Std. Dev.	4.240416
		MVU Estimate of SE of Mean	1.308945
		UCL Assuming Lognormal Di	stribution
		95% H-UCL	34.40282
		95% Chebyshev (MVUE) UCL	8.242387
		99% Chebyshev (MVUE) UCL	15.56067
		Recommended UCL to use:	
		95 % Chebyshev (M	VUE) UCL

# Pro UCL Software Printouts Zone 1 Mid Bank 0-3ft depth

Summary Statistics for Number of Samples Minimum Maximum Mean Median Standard Deviation Variance Coefficient of Variation Skewness	Zone 1 Mid 0-3 6 0.009 0.22 0.088 0.075 0.081296986 0.0066092 0.923829391 0.807515551
Shapiro-Wilk Test Statisitic	0.912786524
Shapiro-Wilk 5% Critical Value	0.788
Data are Normal at 5% Significar	nce Level
Recommended UCL to use	Student's-t
95 % UCL (Assuming No	ormal Data)
Student's-t	0.154878153
95 % UCL (Adjusted for	Skewness)
Adjusted-CLT	0.154282709
Modified-t	0.156701724
95 % Non-parametric UC	CL
CLT	0.142591632
Jackknife	0.154878153
Standard Bootstrap	0.137381612
Bootstrap-t	0.184486947
Chebyshev (Mean, Std)	0.232669048

# Pro UCL Software Printouts Zone 1 High Bank 0-3ft depth

Summary Statistics for	Zone 1 High 0-3
Number of Samples	59
Minimum	0.1
Maximum	11
Mean	0.681525424
Median	0.3
Standard Deviation	1.539150923
Variance	2.368985564
Coefficient of Variation	2.258391058
Skewness	5.913238525
Lilliefors Test Statisitic	0.376567477
Lilliefors 5% Critical Value	0.115347375
Data not Normal at 5% Significa	
Data not Lognormal: Try Non-pa	rametric UCL
95 % UCL (Assuming N	
Student's-t	1.016471751
	_,
95 % UCL (Adjusted for	
Adjusted-CLT	1.175951348
Modified-t	1.042181826

CLT	1.011121823
Jackknife	1.016471751
Standard Bootstrap	1.007550759
Bootstrap-t	2.479670023
Chebyshev (Mean, Std)	1.554963261

# Pro UCL Software Printouts Zone 2a Low Bank 0-3ft depth

Common Ctationian for	Zone 2a low 0-3	Cummany Statistics for	In/On Inv
Summary Statistics for	2011e 2a 10w 0-3	Summary Statistics for Minimum	In(2a low) -4.656463
Number of Samples	0.0095	Maximum	
Minimum	0.0095		-0.248461
Maximum	- · · · ·	Mean	-3.338582
Mean	0.131388889	Standard Deviation	1.590591
Median	0.026	Variance	2.529979
Standard Deviation	0.254658077		
Variance	0.064850736	Shapiro-Wilk Test Statisitic	0.829545
Coefficient of Variation	1.938201008	Shapiro-Wilk 5% Critical Value	0.829
Skewness	2.575229499	Data are Lognormal at 5% Signif	icance Level
95 % UCL (Assuming	Normal Data)	Estimates Assuming Lognormal	Distribution
Student's-t	0.289238531	MLE Mean	0.125733
		MLE Standard Deviation	0.427368
95 % UCL (Adjusted	for Skewness)	MLE Coefficient of Variation	3.399006
Adjusted-CLT	0.34887342	MLE Skewness	49.46654
Modified-t	0.30138303	MLE Median	0.035487
		MLE 80% Quantile	0.136077
95 % Non-parametric	UCL	MLE 90% Quantile	0.273987
CLT	0.271013976	MLE 95% Quantile	0.48575
Jackknife	0.289238531	MLE 99% Quantile	1.434952
Standard Bootstrap	0.267256521		
Bootstrap-t	1.752950856	MVU Estimate of Median	0.030771
Chebyshev (Mean, Std)	0.501398496	MVU Estimate of Mean	0.098631
, , ,		MVU Estimate of Std. Dev.	0.176765
99 % Non-parametric	UCL	MVU Estimate of SE of Mean	0.053782
Chebyshev (Mean, Std)	0.97599418		
		UCL Assuming Lognormal Dis	stribution
		95% H-UCL	1.834418
		95% Chebyshev (MVUE) UCL	
		99% Chebyshev (MVUE) UCL	0.633756
		Recommended UCL to use:	3.000700
		99 % Chebyshev (M\	(UE) LICI
		as to chephanes (INIT	OL) OCL

## Pro UCL Software Printouts Zone 2a Mid Bank 0-3ft depth

Summary Statistics for Number of Samples Minimum Maximum Mean Median Standard Deviation Variance Coefficient of Variation Skewness	Zone 2a mid 0-3 9 0.023 0.31 0.108889 0.077 0.089798 0.008064 0.824672 1.531304
Shapiro-Wilk Test Statisitic Shapiro-Wilk 5% Critical Value Data are Normal at 5% Significa Recommended UCL to use	
95 % UCL (Assuming N Student's-t	lormal Data) 0.16455
95 % UCL (Adjusted for	· Skewness)
Adjusted-CLT Modified-t	0.174449 0.167096
95 % Non-parametric U	CL
CLT Jackknife Standard Bootstrap Bootstrap-t Chebyshev (Mean, Std)	0.158124 0.16455 0.155783 0.201314 0.239362

## **Pro UCL Software Printouts** Zone 2a High Bank 0-2ft depth

Summary Statistics for	Zone 2a high 0-2
Number of Samples	53
Minimum	0.07
Maximum	6.6
Mean	0.529056604
Median	0.3
Standard Deviation	1.113647013
Variance	1.24020967
Coefficient of Variation	2.104967607
Skewness	5.003628893
Lilliefors Test Statisitic	0.436867173
Lilliofora EO/ Critical Value	0.12170146

Lilliefors 5% Critical Value 0.12170146

Data not Normal at 5% Significance Level Data not Lognormal: Try Non-parametric UCL

95 % UCL (Assuming Normal Data) Student's-t 0.785235742

95 % UCL (Adjusted for Skewness)

0.893012524 Adjusted-CLT Modified-t 0.802758623

CLT	0.780671807
Jackknife	0.785235742
Standard Bootstrap	0.776271257
Bootstrap-t	3.044348459
Chebyshev (Mean, Std)	1.195842526

# Pro UCL Software Printouts Zone 2b High Bank 0-3ft depth

Summary Statistics for Number of Samples Minimum Maximum Mean Median Standard Deviation Variance Coefficient of Variation Skewness	Zone 2b high 0-3 12 0.0095 0.32 0.140542 0.1075 0.112851 0.012735 0.802969 0.327343	
Shapiro-Wilk Test Statisitic Shapiro-Wilk 5% Critical Value Data are Normal at 5% Significa Recommended UCL to use		
95 % UCL (Assuming N Student's-t	ormal Data) 0.199046	
95 % UCL (Adjusted for Skewness)		
Adjusted-CLT Modified-t	0.197416 0.19956	
95 % Non-parametric U	CI	
CLT Jackknife Standard Bootstrap Bootstrap-t Chebyshev (Mean, Std)	0.194126 0.199046 0.191858 0.202932 0.282542	

#### Pro UCL Software Printouts Zone 2c Mid Bank 0-3ft depth

Summary Statistics for	Zone 2c mid 0-3
Number of Samples	7
Minimum	0.635
Maximum	22
Mean	10.13785714
Median	8.4
Standard Deviation	9.672933826
Variance	93.56564881
Coefficient of Variation	0.954139883
Skewness	0.182339277
	0.004000004

Shapiro-Wilk Test Statisitic 0.821635521 Shapiro-Wilk 5% Critical Value 0.803 Data are Normal at 5% Significance Level

Recommended UCL to use Student's-t

95 % UCL (Assuming Normal Data) Student's-t 17.24217095

95 % UCL (Adjusted for Skewness)

Adjusted-CLT 16.42071205 Modified-t 17.28416513

95 % Non-parametric UCL

 CLT
 16.15148368

 Jackknife
 17.24217095

 Standard Bootstrap
 15.67502917

 Bootstrap-t
 17.3658069

 Chebyshev (Mean, Std)
 26.07410212

# Pro UCL Software Printouts Zone 2c Mid Bank 0-1ft depth

Summary Statistics for	Zone 2c mid 0-1
Number of Samples	3
Minimum	18
Maximum	22
Mean	20
Median	20

Too Few Observations To Calculate UCLs

## Pro UCL Software Printouts Zone 2c Mid Bank 1-3ft depth

Summary Statistics for	Zone 2c mid 1-3	Summary Statistics for	In(2c mid 1-3)
Number of Samples	4	Minimum	-0.45413028
Minimum	0.635	Maximum	2.128231706
Maximum	8.4	Mean	0.400543922
Mean	2.74125	Standard Deviation	1.168730415
Median	0.965	Variance	1.365930783
Standard Deviation	3.775761237		
Variance	14.25637292	Shapiro-Wilk Test Statisitic	0.776057872
Coefficient of Variation	1.37738668	Shapiro-Wilk 5% Critical Value	0.748
Skewness	1.989552634	Data are Lognormal at 5% Signific	cance Level
95 % UCL (Assi	uming Normal Data)	Estimates Assuming Lognormal D	Distribution
Student's-t	7.184118885	MLE Mean	2.955031506
		MLE Standard Deviation	5.049014804
95 % UCL (Adju	sted for Skewness)	MLE Coefficient of Variation	1.708616234
Adjusted-CLT	7.853227714	MLE Skewness	10.11393071
Modified-t	7.49712204	MLE Median	1.492636354
		MLE 80% Quantile	4.007313722
95 % Non-parar	netric UCL	MLE 90% Quantile	6.701708572
CLT	5.846537284	MLE 95% Quantile	10.20732351
Jackknife	7.184118885	MLE 99% Quantile	22.62399042
Standard Bootstrap	5.38559701		
Bootstrap-t	235.0680109	MVU Estimate of Median	1.250521958
Chebyshev (Mean, Std)	10.97033083	MVU Estimate of Mean	2.383663671
		MVU Estimate of Std. Dev.	2.546297851
99 % Non-parar	netric UCL	MVU Estimate of SE of Mean	1.260272869
Chebyshev (Mean, Std)			
		UCL Assuming Lognormal Dist	ribution
		95% H-UCL	3414.903903
		95% Chebyshev (MVUE) UCL	7.87706575
		99% Chebyshev (MVUE) UCL	14.92322039
		Recommended UCL to use:	
		95 % Chebyshev (MV	JE) UCL

# Pro UCL Software Printouts Zone 2d Mid Bank 0-3ft depth

Summary Statistics for	Zone 2d mid 0-3
Number of Samples	5
Minimum	0.05
Maximum	100
Mean	28.91
Median	2.4
Standard Deviation	43.56269046
Variance	1897.708
Coefficient of Variation	1.506838134
Skewness	1.486524807

Shapiro-Wilk Test Statisitic 0.771713708
Shapiro-Wilk 5% Critical Value 0.762
Data are Normal at 5% Significance Level
Recommended UCL to use Student's-t

95 % UCL (Assuming Normal Data)

Student's-t 70.44225458

95 % UCL (Adjusted for Skewness)

 Adjusted-CLT
 74.79351732

 Modified-t
 72.60082191

95 % Non-parametric UCL

 CLT
 60.95475453

 Jackknife
 70.44225458

 Standard Bootstrap
 57.44028466

 Bootstrap-t
 986.6299472

 Chebyshev (Mean, Std)
 113.829317

## Pro UCL Software Printouts Zone 2d Mid Bank 0-1ft depth

Summary Statistics for	Zone 2d mid 0-1
Number of Samples	3
Minimum	0.05
Maximum	2.4
Mean	0.85
Median	0.1

Too Few Observations To Calculate UCLs

# Pro UCL Software Printouts Zone 2d Mid Bank 1-3ft depth

Summary Statistics for	Zone 2d mid 1-3
Number of Samples	2
Minimum	42
Maximum	100
Mean	71
Median	71

Too Few Observations To Calculate UCLs

## Pro UCL Software Printouts Zone 3a Bank 0-3ft depth

Summary Statistics for Number of Samples Minimum Maximum Mean Median Standard Deviation Variance Coefficient of Variation Skewness	Zone 3a 0-3ft no results removed 151 0.05 700 9.587199 0.324 58.13548 3379.735 6.063866 11.36033
Lilliefors Test Statisitic Lilliefors 5% Critical Value Data not Normal at 5% Significa Data not Lognormal: Try Non-pa	
95 % UCL (Assuming N Student's-t	Normal Data) 17.41736
95 % UCL (Adjusted fo	r Skewness)
Adjusted-CLT	22.04243
Modified-t	18.14632
95 % Non-parametric U	JCL
CLT	17.369
Jackknife	17.41736
Standard Bootstrap	17.27169
Bootstrap-t	42.95441
Chebyshev (Mean, Std)	30.20914

# Pro UCL Software Printouts Zone 3a Bank 0-3ft depth with 700ppm result removed

Summary Statistics for	Zone 3a 0-3ft 700ppm result removed
Number of Samples	151
Minimum	0.05
Maximum	100
Mean	4.907066
Median	0.258
Standard Deviation	13.45537
Variance	181.047
Coefficient of Variation	2.74204
Skewness	4.652247
Lilliefors Test Statisitic	0.359059
Lilliefors 5% Critical Value	0.072102
Data not Normal at 5% Sig	nificance Level
Data not Lognormal: Try N	on-parametric UCL
95 % UCL (Assum	ning Normal Data)
Student's-t	6.719345

Student's-t 6.719345

95 % UCL (Adjusted for Skewness)

 Adjusted-CLT
 7.151109

 Modified-t
 6.788437

95 % Non-parametric UCL

 CLT
 6.708152

 Jackknife
 6.719345

 Standard Bootstrap
 6.685365

 Bootstrap-t
 7.542287

 Chebyshev (Mean, Std)
 9.679984

#### Pro UCL Software Printouts Zone 3 Mid Bank 0-3ft depth

Summary Statistics for Number of Samples Minimum Maximum Mean Median Standard Deviation Variance Coefficient of Variation Skewness	Zone 3 mid 0-3 8 6.9 93 38.9875 32.5 31.20075 973.487 0.800276 1.040614
Shapiro-Wilk Test Statisitic	0.852065
Shapiro-Wilk 5% Critical Value	0.818
Data are Normal at 5% Significa	ance Level
Recommended UCL to use	Student's-t

95 % UCL (Assuming Normal Data) Student's-t 59.88685

95 % UCL (Adjusted for Skewness)
Adjusted-CLT 61.46866
Modified-t 60.56326

57.1321
9.88685
55.9153
2.48927
7.07109

## Pro UCL Software Printouts Zone 3 Mid Bank 0-1ft depth

Summary Statistics for	Zone 3 mid (0-1)
Number of Samples	4
Minimum	6.9
Maximum	34
Mean	24.225
Median	28
Standard Deviation	12.86089
Variance	165.4025
Coefficient of Variation	0.530893
Skewness	-1.04775
Shapiro-Wilk Test Statisitic	0.858159
	0 740

Shapiro-Wilk 1est Statistic 0.656159
Shapiro-Wilk 5% Critical Value 0.748
Data are Normal at 5% Significance Level
Recommended UCL to use Student's-t

95 % UCL (Assuming Normal Data) Student's-t 39.35817

95 % UCL (Adjusted for Skewness)
Adjusted-CLT 31.20258
Modified-t 38.79672

CLT	34.80214
Jackknife	39.35817
Standard Bootstrap	33.52549
Bootstrap-t	38.64521
Chebyshev (Mean, Std)	52.25466

# Pro UCL Software Printouts Zone 3 Mid Bank 1-3ft depth

Summary Statistics for	Zone 3 mid (1-3)
Number of Samples	4
Minimum	11
Maximum	93
Mean	53.75
Median	55.5
Standard Deviation Variance Coefficient of Variation Skewness	39.05018 1524.917 0.726515 -0.127044
Shapiro-Wilk Test Statisitic	0.911304
Shapiro-Wilk 5% Critical Value	0.748
Data are Normal at 5% Significa	nce Level
Recommended UCL to use	Student's-t

95 % UCL (Assuming Normal Data) Student's-t 99.69963

95 % UCL (Adjusted for Skewness)
Adjusted-CLT 84.54067
Modified-t 99.49292

CLT	85.86592
Jackknife	99.69963
Standard Bootstrap	81.92004
Bootstrap-t	164.5054
Chebyshev (Mean, Std)	138.8579

## Pro UCL Software Printouts Zone 3 High Bank 0-3ft depth

Summary Statistics for	Zone 3 high 0-3	Summary Statistics for	In(3 high)
Number of Samples	6	Minimum	-2.847312
Minimum	0.058	Maximum	-0.301105
Maximum	0.74	Mean	-1.722648
Mean	0.248	Standard Deviation	0.850438
Median	0.16	Variance	0.723245
Standard Deviation	0.249335116	Variance	0.725245
Variance	0.062168	Shapiro-Wilk Test Statisitic	0.96226
Coefficient of Variation	1.005383532	Shapiro-Wilk 5% Critical Value	0.788
Skewness	2.101171723	Data are Lognormal at 5% Signi	
Skewiless	2.101171723	Data are Eognormal at 5 % Signi	ncance Level
95 % UCL (Assuming I	Normal Data)	Estimates Assuming Lognormal	Distribution
Student's-t	0.453113039	MLE Mean	0.256398
		MLE Standard Deviation	0.264116
95 % UCL (Adjusted for	r Skewness)	MLE Coefficient of Variation	1.030102
Adjusted-CLT	0.508729087	MLE Skewness	4.183356
Modified-t	0.467665703	MLE Median	0.178593
		MLE 80% Quantile	0.366401
95 % Non-parametric l	JCL	MLE 90% Quantile	0.53268
CLT	0.415430695	MLE 95% Quantile	0.723484
Jackknife	0.453113039	MLE 99% Quantile	1.291069
Standard Bootstrap	0.403189702		
Bootstrap-t	0.955753687	MVU Estimate of Median	0.168058
Chebyshev (Mean, Std)	0.691695091	MVU Estimate of Mean	0.238539
		MVU Estimate of Std. Dev.	0.202417
		MVU Estimate of SE of Mean	0.082028
		UCL Assuming Lognormal Di	stribution
		95% H-UCL	1.078952
		95% Chebyshev (MVUE) UCL	0.596089
		,	1.054703
		99% Chebyshev (MVUE) UCL Recommended UCL to use:	1.054703
		H-UCL	
		H-UCL	

# Pro UCL Software Printouts Zone 4 Low Bank 0-3ft depth

Summary Statistics for	Zone 4 low 0-3	Summary Statistics for	In( z4 low 0-3)
Number of Samples	27	Minimum	-1.386294361
Minimum	0.25	Maximum	5.703782475
Maximum	300	Mean	0.822032677
Mean	15.17996296	Standard Deviation	1.649024152
Median	2.2	Variance	2.719280654
Standard Deviation	57.20009964		
Variance	3271.851399	Shapiro-Wilk Test Statisitic	0.933509303
Coefficient of Variation	3.7681317	Shapiro-Wilk 5% Critical Value	0.923
Skewness	5.116827518	Data are Lognormal at 5% Signif	ficance Level
95 % UCL (Assumin	a Normal Data)	Estimates Assuming Lognormal	Distribution
Student's-t	33.95568282	MLE Mean	8.861118548
		MLE Standard Deviation	33.35526328
95 % UCL (Adjusted	I for Skewness)	MLE Coefficient of Variation	3.76422718
Adjusted-CLT	44.86959945	MLE Skewness	64.62954572
Modified-t	35.76236828	MLE Median	2.275119724
		MLE 80% Quantile	9.165606779
95 % Non-parametri	c UCL	MLE 90% Quantile	18.93531528
CLT	33.28678196	MLE 95% Quantile	34.28395316
Jackknife	33.95568282	MLE 99% Quantile	105.3894835
Standard Bootstrap	32.39754395		
Bootstrap-t	192.1682753	MVU Estimate of Median	2.16319145
Chebyshev (Mean, Std)	63.16343874	MVU Estimate of Mean	7.974718175
		MVU Estimate of Std. Dev.	20.84122041
		MVU Estimate of SE of Mean	3.217945983
		UCL Assuming Lognormal Dis	stribution
		95% H-UCL	26.55899584
		95% Chebyshev (MVUE) UCL	22.00141952
		99% Chebyshev (MVUE) UCL	39.99287644
		Recommended UCL to use:	

95 % Chebyshev (MVUE) UCL

## Pro UCL Software Printouts Zone 4 Low Bank 0-1ft depth

Summary Statistics for	Zone 4 low 0-1	Summary Statistics for	In( z4 low 0-1)
Number of Samples	12	Minimum	-1.049822124
Minimum	0.35	Maximum	5.703782475
Maximum	300	Mean	1.558447414
Mean	31.72833333	Standard Deviation	1.985639976
Median	5.545	Variance	3.942766113
Standard Deviation	84.80741197		
Variance	7192.297124	Shapiro-Wilk Test Statisitic	0.93312094
Coefficient of Variation	2.672923632	Shapiro-Wilk 5% Critical Value	0.859
Skewness	3.417430496	Data are Lognormal at 5% Signif	ficance Level
95 % UCL (Assumi	ng Normal Data)	Estimates Assuming Lognormal	Distribution
Student's-t	75.69480635	MLE Mean	34.11818307
		MLE Standard Deviation	242.6017014
95 % UCL (Adjuste	d for Skewness)	MLE Coefficient of Variation	7.11062781
Adjusted-CLT	97.80400782	MLE Skewness	380.8525341
Modified-t	79.72013185	MLE Median	4.751438497
		MLE 80% Quantile	25.43975717
95 % Non-paramet	ric UCL	MLE 90% Quantile	60.94639957
CLT	71.99729618	MLE 95% Quantile	124.5646893
Jackknife	75.69480635	MLE 99% Quantile	481.5673019
Standard Bootstrap	72.32015511		
Bootstrap-t	418.6771298	MVU Estimate of Median	4.022994211
Chebyshev (Mean, Std)	138.4419865	MVU Estimate of Mean	23.85908908
•		MVU Estimate of Std. Dev.	63.86748508
99 % Non-paramet	ric UCL	MVU Estimate of SE of Mean	14.82243376
Chebyshev (Mean, Std)	275.3190788		
		UCL Assuming Lognormal Dis	stribution
		95% H-UCL	653.1116435
		95% Chebyshev (MVUE) UCL	88.46857993
		99% Chebyshev (MVUE) UCL	171.3404428
		Recommended UCL to use:	
		99 % Chebyshev (M)	/UE) UCL

## Pro UCL Software Printouts Zone 4 Low Bank 1-3ft depth

Summary S Number of Minimum	Statistics for Samples	Zone 4 low 1-3 15 0.25
Maximum		6.02
Mean		1.941267
Median		1.6
Standard E	Deviation	1.641843
Variance		2.695648
Coefficient	of Variation	0.845759
Skewness		1.074457
Shaniro-W	ilk Test Statisitic	0.891329
•	ilk 5% Critical Value	
•	lormal at 5% Significa	
	~	Student's-t
95	% UCL (Assuming N	Normal Data)
Student's-t	` •	2.687925
95	% UCL (Adjusted fo	r Skewness)
Adjusted-C	· •	2.76422
Modified-t		2.707526
95	% Non-parametric U	JCI.
CLT	, , , , , , , , , , , , , , , , , , ,	2.638556
Jackknife		2.687925
Standard E	Bootstrap	2.615414
Bootstrap-	•	2.886155
•	v (Mean, Std)	3.7891
355,5110		

# Pro UCL Software Printouts Zone 4 Mid Bank 0-3ft depth

Summary Statistics for	Zone 4 mid 0-3	Summary Statistics for	In(z4 mid 0-3)
Number of Samples	28	Minimum	-2.78062089
Minimum	0.062	Maximum	3.737669618
Maximum	42	Mean	0.43423736
Mean	6.389357143	Standard Deviation	1.779581111
Median	1.4	Variance	3.16690893
Standard Deviation	11.0732194		
Variance	122.6161879	Shapiro-Wilk Test Statisitic	0.946654108
Coefficient of Variation	1.733072538	Shapiro-Wilk 5% Critical Value	0.924
Skewness	2.179967932	Data are Lognormal at 5% Signi	ficance Level
95 % UCL (Assumin	g Normal Data)	Estimates Assuming Lognormal	Distribution
Student's-t	9.953729037	MLE Mean	7.520945228
		MLE Standard Deviation	35.86001148
95 % UCL (Adjusted	l for Skewness)	MLE Coefficient of Variation	4.768019231
Adjusted-CLT	10.75263056	MLE Skewness	122.7002421
Modified-t	10.09741513	MLE Median	1.543785258
		MLE 80% Quantile	6.944732085
95 % Non-parametri	c UCL	MLE 90% Quantile	15.1954963
CLT	9.831446546	MLE 95% Quantile	28.83668287
Jackknife	9.953729037	MLE 99% Quantile	96.88677455
Standard Bootstrap	9.739751416		
Bootstrap-t	11.39690413	MVU Estimate of Median	1.458742254
Chebyshev (Mean, Std)	15.51097113	MVU Estimate of Mean	6.617757048
		MVU Estimate of Std. Dev.	20.23451971
		MVU Estimate of SE of Mean	2.89013174
		UCL Assuming Lognormal Dis	stribution
		95% H-UCL	25.51525534
		95% Chebyshev (MVUE) UCL	19.21554924
		99% Chebyshev (MVUE) UCL	35.37420477
		Recommended UCL to use:	
		95 % Chebyshev (M)	VUE) UCL
		, , , , , , , , , , , , , , , , , , , ,	,

# Pro UCL Software Printouts Zone 4 Mid Bank 0-1ft depth

Summary Statistics for	Zone 4 mid 0-1	Summary Statistics for	In(z4 mid 0-1)
Number of Samples	11	Minimum	-1.83258146
Minimum	0.16	Maximum	2.995732274
Maximum	20	Mean	0.11391272
Mean	2.978181818	Standard Deviation	1.38140795
Median	1.4	Variance	1.908287925
Standard Deviation	5.735288691		
Variance	32.89353636	Shapiro-Wilk Test Statisitic	0.954692505
Coefficient of Variation	1.925768486	Shapiro-Wilk 5% Critical Value	0.85
Skewness	3.133510653	Data are Lognormal at 5% Signif	icance Level
95 % UCL (Assuming	Normal Data)	Estimates Assuming Lognormal	Distribution
Student's-t	6.112388486	MLE Mean	2.909719494
		MLE Standard Deviation	6.972125626
95 % UCL (Adjusted for	or Skewness)	MLE Coefficient of Variation	2.396150433
Adjusted-CLT	7.568270922	MLE Skewness	20.94603742
Modified-t	6.384685277	MLE Median	1.12065431
		MLE 80% Quantile	3.600967064
95 % Non-parametric	UCL	MLE 90% Quantile	6.612897682
CLT	5.822552528	MLE 95% Quantile	10.87350176
Jackknife	6.112388486	MLE 99% Quantile	27.85653567
Standard Bootstrap	5.767884757		
Bootstrap-t	17.40491666	MVU Estimate of Median	1.026889969
Chebyshev (Mean, Std)	10.51582789	MVU Estimate of Mean	2.527444113
		MVU Estimate of Std. Dev.	4.039840389
		MVU Estimate of SE of Mean	1.132616408
		UCL Assuming Lognormal Dis	stribution
		95% H-UCL	15.25275089
		95% Chebyshev (MVUE) UCL	7.464404579
		99% Chebyshev (MVUE) UCL	13.79683509
		Recommended UCL to use:	
		95 % Chebyshev (M\	/UE) UCL

# Pro UCL Software Printouts Zone 4 Mid Bank 1-3ft depth

Summary Statistics for	Zone 4 mid 1-3	Summary Statistics for	In(z4 mid 1-3)
Number of Samples	20	Minimum	-2.780620894
Minimum	0.062	Maximum	3.737669618
Maximum	42	Mean	0.632827182
Mean	8.5571	Standard Deviation	1.983508533
Median	1.35	Variance	3.9343061
Standard Deviation	12.85392841	Variance	0.0040001
	165.2234756	Shapiro-Wilk Test Statisitic	0.920061105
Variance	1.502136052	Shapiro-Wilk 5% Critical Value	0.920001103
Coefficient of Variation	1.586276036	Data are Lognormal at 5% Signi	
Skewness	1.300270030	Data are Lognormal at 5% Signif	icance Level
95 % UCL (Assumin	g Normal Data)	Estimates Assuming Lognormal	Distribution
Student's-t	13.52701732	MLE Mean	13.46347188
		MLE Standard Deviation	95.32162891
95 % UCL (Adjusted	I for Skewness)	MLE Coefficient of Variation	7.080018421
Adjusted-CLT	14.37412472	MLE Skewness	376.1377373
Modified-t	13.69693298	MLE Median	1.882926436
		MLE 80% Quantile	10.06326729
95 % Non-parametri	ic UCL	MLE 90% Quantile	24.08611772
CLT	13.28478069	MLE 95% Quantile	49.19041159
Jackknife	13.52701732	MLE 99% Quantile	189.8943811
Standard Bootstrap	13.12411499		
Bootstrap-t	15.78402662	MVU Estimate of Median	1.705747648
Chebyshev (Mean, Std)	21.08555967	MVU Estimate of Mean	10.62857225
Chiebyonet (mean, cta)		MVU Estimate of Std. Dev.	35.63489894
		MVU Estimate of SE of Mean	5.814154436
		UCL Assuming Lagrange Di	
		UCL Assuming Lognormal Dis	
		95% H-UCL	90.30982638
		95% Chebyshev (MVUE) UCL	
		99% Chebyshev (MVUE) UCL	68.47867846
		Recommended UCL to use:	
		95 % Chebyshev (M)	/UE) UCL

## Pro UCL Software Printouts Zone 4 High Bank 0-3ft depth

Summary Statistics for	Zone 4 high 0-3	Summary Statistics for	In(z4 high 0-3)
Summary Statistics for Number of Samples	2011e 4 flight 0-3	Minimum	-2.780620894
Minimum	0.062	Maximum	1.280933845
	3.6	Mean	-0.823843818
Maximum	0.658444444	Standard Deviation	0.884793469
Mean			
Median	0.385	Variance	0.782859482
Standard Deviation	0.798758612		0.057000470
Variance	0.63801532	Shapiro-Wilk Test Statisitic	0.957829178
Coefficient of Variation	1.213099478	Shapiro-Wilk 5% Critical Value	0.897
Skewness	3.241772672	Data are Lognormal at 5% Sign	ificance Level
95 % UCL (Assur	ning Normal Data)	Estimates Assuming Lognorma	l Distribution
Student's-t	0.985958783	MLE Mean	0.64894061
		MLE Standard Deviation	0.707231862
95 % UCL (Adjus	ted for Skewness)	MLE Coefficient of Variation	1.089825249
Adjusted-CLT	1.121831117	MLE Skewness	4.563881982
Modified-t	1.009934651	MLE Median	0.438741965
		MLE 80% Quantile	0.926637036
95 % Non-parame	etric UCL	MLE 90% Quantile	1.367679884
CLT	0.968119738	MLE 95% Quantile	1.880695091
Jackknife	0.985958783	MLE 99% Quantile	3.435580098
Standard Bootstrap	0.956452974		
Bootstrap-t	1.411236208	MVU Estimate of Median	0.429293316
Chebyshev (Mean, Std)	1.479090907	MVU Estimate of Mean	0.630630676
Office yorlov (mount, ora)		MVU Estimate of Std. Dev.	0.623609426
		MVU Estimate of SE of Mean	0.143552879
		UCL Assuming Lognormal D	istribution
		95% H-UCL	1.10713745
		95% Chebyshev (MVUE) UCL	
		99% Chebyshev (MVUE) UCL	2.058963792
		Recommended UCL to use:	2.000303732
		H-UCL	

#### Pro UCL Software Printouts Zone 5 Mid Bank 0-3ft depth

Summary Statistics for	Zone 5 mid 0-3	Summary Statistics for	In(5 mid)
Number of Samples	9	Minimum	-0.2231436
Minimum	0.8	Maximum	4.1743873
Maximum	65	Mean	1.4818239
Mean	11.1944444	Standard Deviation	1.3821103
Median	5.5	Variance	1.910229
Standard Deviation	20.39026184		
Variance	415.7627778	Shapiro-Wilk Test Statisitic	0.8932544
Coefficient of Variation	1.821462596	Shapiro-Wilk 5% Critical Value	0.829
Skewness	2.880391025	Data are Lognormal at 5% Signi	ficance Level
95 % UCL (Assumin	g Normal Data)	Estimates Assuming Lognormal	
Student's-t	23.83333485	MLE Mean	11.437969
		MLE Standard Deviation	27.438337
95 % UCL (Adjusted	for Skewness)	MLE Coefficient of Variation	2.3988821
Adjusted-CLT	29.34698927	MLE Skewness	21.001337
Modified-t	24.92096313	MLE Median	4.4009654
		MLE 80% Quantile	14.149894
95 % Non-parametri	c UCL	MLE 90% Quantile	25.993219
CLT	22.37410983	MLE 95% Quantile	42.75112
Jackknife	23.83333485	MLE 99% Quantile	109.57536
Standard Bootstrap	22.02924381		
Bootstrap-t	71.64667669	MVU Estimate of Median	3.9532835
Chebyshev (Mean, Std)	40.82080804	MVU Estimate of Mean	9.6772549
•		MVU Estimate of Std. Dev.	14.726794
		MVU Estimate of SE of Mean	4.6215275
		LICI Assuming to an amount Di	_ &
		UCL Assuming Lognormal Dis	
		95% H-UCL	90.417791
		95% Chebyshev (MVUE) UCL	
		99% Chebyshev (MVUE) UCL	55.660873
		Recommended UCL to use:	# NEX 1101
		95 % Chebyshev (M)	VUE) UCL

## Pro UCL Software Printouts Zone 5 Mid Bank 0-1ft depth

Zone 5 mid 0-1
3
1.2
9.3
5.666667
6.5

Too Few Observations To Calculate UCLs

# Pro UCL Software Printouts Zone 5 Mid Bank 1-3ft depth

Summary Statistics for	Zone 5 mid	Summary Statistics for	In(Zone 5 mid 1-3)
Number of Samples	6	Minimum	-0.223144
Minimum	0.8	Maximum	4.174387
Maximum	65	Mean	1.508713
Mean	13.95833	Standard Deviation	1.6048
Median	5.425	Variance	2.575383
Standard Deviation	25.11873		
Variance	630.9504	Shapiro-Wilk Test Statisitic	0.883008
Coefficient of Variation	1.799551	Shapiro-Wilk 5% Critical Value	0.788
Skewness	2.39947	Data are Lognormal at 5% Signi	ficance Level
95 % UCL (Assuming Normal Data) Estimates Assuming Lognormal Distribution		Distribution	
Student's-t	34.622	MLE Mean	16.38562
		MLE Standard Deviation	57.08303
95 % UCL (Adjusted	d for Skewness)	MLE Coefficient of Variation	3.483726
Adjusted-CLT	41.5593	MLE Skewness	52.73089
Modified-t	36.29621	MLE Median	4.520908
		MLE 80% Quantile	17.545
95 % Non-parametr	ic UCL	MLE 90% Quantile	35.54789
CLT	30.82578	MLE 95% Quantile	63.34582
Jackknife	34.622	MLE 99% Quantile	188.9491
Standard Bootstrap	29.33913		
Bootstrap-t	136.1094	MVU Estimate of Median	3.622136
Chebyshev (Mean, Std)	58.65743	MVU Estimate of Mean	11.64986
		MVU Estimate of Std. Dev.	18.39708
99 % Non-parametr	ic UCL	MVU Estimate of SE of Mean	7.092306
Chebyshev (Mean, Std)	115.9911		
		UCL Assuming Lognormal Di	stribution
		95% H-UCL	1802.755
		95% Chebyshev (MVUE) UCL	42.5645
		99% Chebyshev (MVUE) UCL	82.21741
		Recommended UCL to use:	
		99 % Chebyshev (M	VUE) UCL

## Pro UCL Software Printouts Zone 5 High Bank 0-3ft depth

Summary Statistics for	Zone 5 high 0-3	Summary Statistics for	In(5 high)
Number of Samples	9	Minimum	-0.072571
Minimum	0.93	Maximum	9.4727046
Maximum	13000	Mean	3.5804385
Mean	1733.647778	Standard Deviation	3.34639
Median	33	Variance	11.198326
Standard Deviation	4297.160505		
Variance	18465588.4	Shapiro-Wilk Test Statisitic	0.9180319
Coefficient of Variation	2.478681402	Shapiro-Wilk 5% Critical Value	0.829
Skewness	2.826687091	Data are Lognormal at 5% Signi	ficance Level
95 % UCL (Assuming	g Normal Data)	Estimates Assuming Lognormal	Distribution
Student's-t	4397.239893	MLE Mean	9697.2871
		MLE Standard Deviation	2620190.4
95 % UCL (Adjusted	for Skewness)	MLE Coefficient of Variation	270.19829
Adjusted-CLT	5531.820566	MLE Skewness	19727208
Modified-t	4622.179303	MLE Median	35.889275
		MLE 80% Quantile	606.76286
95 % Non-parametric	UCL	MLE 90% Quantile	2645.3261
CLT	4089.71446	MLE 95% Quantile	8824.1717
Jackknife	4397.239893	MLE 99% Quantile	86175.535
Standard Bootstrap	3942.939634		
Bootstrap-t	214524.722	MVU Estimate of Median	18.41386
Chebyshev (Mean, Std)	7977.277239	MVU Estimate of Mean	1452.1493
		MVU Estimate of Std. Dev.	6678.91
		MVU Estimate of SE of Mean	1308.1414
		UCL Assuming Lognormal Dis	stribution
		95% H-UCL	745510383
		95% Chebyshev (MVUE) UCL	7154.2055
		99% Chebyshev (MVUE) UCL	14467.992
		Recommended UCL to use:	
		Needs further investi	gation.

# Pro UCL Software Printouts Zone 5 High Bank 0-1ft depth

Summary Statistics for	Zone 5 high 0-1
Number of Samples	3
Minimum	7.7
Maximum	100
Mean	46.9
Median	33

Too Few Observations To Calculate UCLs

# Pro UCL Software Printouts Zone 5 High Bank 1-3ft depth

Summary Statistics for	Zone 5 high 1-3	Summary Statistics for	In(Zone 5 high 1-3)
Number of Samples	6	Minimum	-0.072570693
Minimum	0.93	Maximum	9.472704636
Maximum	13000	Mean	3.680174749
Mean	2577.021667	Standard Deviation	4.149713511
Median	30.05	Variance	17.22012222
Standard Deviation	5194.557276		
Variance	26983425.29	Shapiro-Wilk Test Statisitic	0.856233408
Coefficient of Variation	2.015721227	Shapiro-Wilk 5% Critical Value	0.788
Skewness	2.279609781	Data are Lognormal at 5% Signit	icance Level
95 % UCL (Assun	ning Normal Data)	Estimates Assuming Lognormal	Distribution
Student's-t	6850.272245	MLE Mean	217561.2851
		MLE Standard Deviation	1193668237
95 % UCL (Adjust	ed for Skewness)	MLE Coefficient of Variation	5486.583868
Adjusted-CLT	8174.025677	MLE Skewness	1.65E+11
Modified-t	7179.204567	MLE Median	39.65332285
		MLE 80% Quantile	1321.711367
95 % Non-parame	etric UCL	MLE 90% Quantile	8205.47268
CLT	6065.211975	MLE 95% Quantile	36550.6217
Jackknife	6850.272245	MLE 99% Quantile	616866.7872
Standard Bootstrap	5794.991676		
Bootstrap-t	575473.9667	MVU Estimate of Median	5.298256958
Chebyshev (Mean, Std)	11820.80409	MVU Estimate of Mean	3489.053062
		MVU Estimate of Std. Dev.	13239.01182
		MVU Estimate of SE of Mean	3366.775
		UCL Assuming Lognormal Dis	stribution
		95% H-UCL	4.07E+18
		95% Chebyshev (MVUE) UCL	18164.48505
		99% Chebyshev (MVUE) UCL	36988.04135
		Recommended UCL to use:	
		Needs further investig	gation.
			J = = · ·

#### Pro UCL Software Printouts Zone 6 Mid Bank 0-3ft depth

Summary Statistics for Number of Samples Minimum Maximum Mean Median Standard Deviation Variance Coefficient of Variation Skewness	Zone 6 mid 0-3 9 0.36 84 30.77333 25 29.37666 862.9884 0.954614 1.009524
Shapiro-Wilk Test Statisitic Shapiro-Wilk 5% Critical Value Data are Normal at 5% Significa Recommended UCL to use	
95 % UCL (Assuming N Student's-t	lormal Data) 48.98244
95 % UCL (Adjusted for	Skewness)
Adjusted-CLT Modified-t	50.40103 49.53163
95 % Non-parametric U	ICL
CLT Jackknife Standard Bootstrap Bootstrap-t Chebyshev (Mean, Std)	46.8801 48.98244 46.13182 63.02175 73.45664

## Pro UCL Software Printouts Zone 6 Mid Bank 0-1ft depth

Summary Statistics for	Zone 6 mid 0-1
Number of Samples	3
Minimum	25
Maximum	84
Mean	60.33333
Median	72

Too Few Observations To Calculate UCLs

# Pro UCL Software Printouts Zone 6 Mid Bank 1-3ft depth

Summary Statistics for	Zone 6 mid 1-3
Number of Samples	6
Minimum	0.36
Maximum	33
Mean	15.99333
Median	13.5
Standard Deviation	14.33296
Variance	205.4339
Coefficient of Variation	0.896184
Skewness	0.355555
Shapiro-Wilk Test Statisitic	0.873773
Objective MOH. FOR Oakkent Makes	0.700

Shapiro-Wilk 5% Critical Value 0.788

Data are Normal at 5% Significance Level

Recommended UCL to use Student's-t

95 % UCL (Assuming Normal Data) Student's-t 27.7842

95 % UCL (Adjusted for Skewness)
Adjusted-CLT 26.5256
Modified-t 27.92576

CLT	25.61804
Jackknife	27.7842
Standard Bootstrap	24.63571
Bootstrap-t	31.8913
Chebyshev (Mean, Std)	41.49903

## Pro UCL Software Printouts Zone 6 High Bank 0-3ft depth

Summary Statistics for	Zone 6 high 0-3	Summary Statistics for	In(6 high)
Number of Samples	9	Minimum	-3.015935
Minimum	0.049	Maximum	-0.0833816
Maximum	0.92	Mean	-1.6176053
Mean	0.275777778	Standard Deviation	0.8545681
Median	0.18	Variance	0.7302867
Standard Deviation	0.263350896		
Variance	0.069353694	Shapiro-Wilk Test Statisitic	0.9806436
Coefficient of Variation	0.954938785	Shapiro-Wilk 5% Critical Value	0.829
Skewness	2.14816426	Data are Lognormal at 5% Signi	ficance Level
95 % UCL (Assuming	Normal Data)	Estimates Assuming Lognormal	Distribution
Student's-t	0.439015658	MLE Mean	0.2858003
otadones e	0. 1000 10000	MLE Standard Deviation	0.2964171
95 % UCL (Adjusted f	or Skewness)	MLE Coefficient of Variation	1.0371478
Adjusted-CLT	0.487333566	MLE Skewness	4.2270779
Modified-t	0.449491972	MLE Median	0.1983732
Wodined t	0. 1 10 10 10 1	MLE 80% Quantile	0.4084053
95 % Non-parametric	UCI	MLE 90% Quantile	0.5948266
CLT CLT	0.420169003	MLE 95% Quantile	0.8090935
Jackknife	0.439015658	MLE 99% Quantile	1.4479085
Standard Bootstrap	0.411562509	MEE 00 /V Qualitino	1.1110000
Bootstrap-t	0.599028696	MVU Estimate of Median	0.1904543
Chebyshev (Mean, Std)	0.658417759	MVU Estimate of Mean	0.2717505
Chebyshev (weah, old)	0.000-11700	MVU Estimate of Std. Dev.	0.2424322
		MVU Estimate of SE of Mean	0.0798126
		6 261,7316 67 62 67 71661.	0.0100120
		UCL Assuming Lognormal Dis	stribution
		95% H-UCL	0.7020745
		95% Chebyshev (MVUE) UCL	0.6196457
		99% Chebyshev (MVUE) UCL	1.0658762
		Recommended UCL to use:	
		H-UCL	

## Pro UCL Software Printouts Zone 7 Mid/High Bank 0-3ft depth

Lilliefors Test Statisitic 0.436412512 Lilliefors 5% Critical Value 0.100969071

Data not Normal at 5% Significance Level Data not Lognormal: Try Non-parametric UCL

95 % UCL (Assuming Normal Data)

Student's-t 2.360445979

95 % UCL (Adjusted for Skewness)

Adjusted-CLT 2.759907867 Modified-t 2.424654256

95 % Non-parametric UCL

 CLT
 2.348263022

 Jackknife
 2.360445979

 Standard Bootstrap
 2.330400668

 Bootstrap-t
 4.090699228

 Chebyshev (Mean, Std)
 3.977290542







